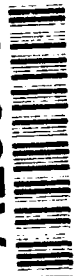


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AD-A253 555

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

AD-A253 555



RESEARCH PROPOSAL
QUARTERLY STATUS REPORT




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JUL 28 1992
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22a. NAME OF RESPONSIBLE INDIVIDUAL DEBRA L. TYRRELL			22b. TELEPHONE (Include Area Code) 202-767-0912		22c. OFFICE SYMBOL XOTD

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

APRIL 1992

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Systems Command, DCS/Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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CC/CD - OFFICE OF THE DIRECTOR

5017 Dr Helmut W. Hellwig, Director
5017 Col Arthur L. Pavel, Deputy Director

<u>NA - DIRECTORATE OF AEROSPACE SCIENCES</u>	
Dr C I Jim Chang (Director)	EXT 4987
Dr Mitat Birkan	4938
Dr Leonidas Sakell	4935
Dr Walter Jones	0470
Dr John Botsls (Visiting)	4937
Dr Dan Fant	0471
Maj Martin Lewis	6963
Dr James McMichael	4936
Dr Spencer Wu	6962
Dr Julian Tishkoff	0465

<u>NI - EDUCATION, ACADEMIC & INDUSTRIAL AFFAIRS</u>	<u>EXT</u>
Col James W. Holt, Jr (Director)	4969
Lt Col V Claude Cavender, Jr (Dep Director)	4969
Dr Dale Boland	4970

<u>NL - DIRECTORATE OF LIFE SCIENCES</u>	<u>EXT</u>
Dr William O. Berry (Director)	4278
Dr Genevieve Haddad	5021
Dr Henry R Radoski	5021
Dr John Tangney	5021
Lt Col Stobie	5021

Dr Donald Ball (Director)	4960
Capt Thomas Erstfield	4960
Dr Charles Y C Lee	4963
Lt Col Michael Berman	4963
Lt Col Larry W Burggraf	4960
Dr Fred Hedberg	4963
Dr Alan Rosenstein	4960

Dr Charles J. Holland (Director)	5025
Dr Neal Glassman	5026
Dr Marc Jacobs	5027
Dr Arje Nachman	4939
Dr Jon Sjogren	4940
Dr Abraham Waksman	5028
Lt Col James A Lupo	4939
Capt Steven Suddarth	5028

Dr Horst R. Wittmann (Director)	4984
Dr Robert Barker	5011
Dr Ralph Kelley	4908
Dr Gerald Witt	4931
Dr Howard Schlossberg	4906
Dr Harold Weinstock	4933
Dr Alan Craig	4931
Maj Gernot Pomrenke	4931

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PART 1

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
APA Optics Inc	Khan	M. Asif		92-NE-189	A	POMRENKE
ARETEX US Corp.	Radler	Richard	W	92-NC-198	D	ERSTFELD
Adtech Systems Research Inc.	Soni	Som	R	92-NC-156	A	LEE
Advanced Fuel Research Inc.	Bates	Stephen	C	92-NA-174		BIRKAN
	LYNDS	Lahner		92-NE-187		POMRENKE
Advanced Optonics, Inc.	Pan	J.	J	92-NC-202	D	LEE
Advanced Technology Materials Inc.	Gordon	Douglas		92-NE-183		POMRENKE
Aerospace Corporation	KOFFEND	J. Brooke		92-NC-204	A	PERRAN
Air Force Armament Laboratory	Heddings	Clyde		92-NE-201	A	BARKER
Air Force Institute of Technology	Beller	Denis	E	92-XO-008	A	EWING
	Bridgeman	Charles		92-XO-005	A	SJOGREN
	Bridgman	Charles		92-XO-006	A	EWING
			J	92-XO-009	A	EWING
	Rogers	Steven		92-NM-285	A	SUDDARTH
Air Force Wright Aeronautical Labs	Shang	Joseph		92-NA-152	A	SAKELL
Alabama A&M University	Lee	C	T	92-NE-178		SCHLOSSBER
Arizona State University	Mayer	James		92-NE-251		MITT
	Nicolaenko	Basil		92-NM-294		NACHNAM
Astralux	Qiu	Chang	H	92-NE-182		POMRENKE
		C. H		92-NE-190		POMRENKE
Auburn University	Shvets	Vadim	F	92-NM-201		NACHNAM
Brown University	Wold	Aaron	J	92-NC-144		ERSTFELD
Busek Co, Inc.	Hruby	V		92-NA-175	A	BIRKAN
CFD Research Corp.	Krishnan	Anantha		92-NA-156	A	TISHKOFF
CYKL Technology, Inc.	Kelly	James	F	92-NC-195	D	LEE
California Institute of Technology	Dimotakis	Paul	E	92-NA-155	A	TISHKOFF
	Goodwin	D.		92-NA-191		BIRKAN
	Grubbs	Robert	H	92-NC-184		HEDBERG
	McCoy	Vincent		92-NE-179		KELLEY
	Yariv	Anon		92-NE-254		SCHLOSSBER
California State University	Jishi	Radi	A	92-NE-230	A	WEINSTOCK
Cambridge Scientifics Inc.	Trantolo	Debra	J	92-NC-200	D	LEE
				92-NC-201	D	LEE
	Berry	G.	C	92-NC-221		LEE
Carnegie-Mellon University	McHenry	Michael	E	92-NE-200	A	WEINSTOCK
	Singer	Kenneth	D	92-NC-217		LEE
Case Western Reserve University	Munge	Richard	J	92-NC-227	D	ERSTFELD
Clarkson University	Larsen	Miguel	F	92-NL-142		STOBIE
Clemson University	Dudek	F. Edward		92-NL-159	A	MADDAD
Colorado State University	Thomas	James	W	92-NM-288		JACOBS
Columbia University	Osgood	Richard	M	92-NE-229	A	SCHLOSSBER
Conductus, Inc.	Simon	Randy	W	92-NE-250	A	WEINSTOCK
Cornell University	Bloom	Bard		92-NM-254		LUPO
	Henzinger	Thomas	A	92-NM-255		LUPO
	Lumley	J	L	92-NM-267	A	JACOBS
	Sass	Stephen	L	92-NC-167	A	ROSENSTEIN
Cygnus Laser Corporation	Beausoleil	Raymond	G	92-NE-233		KELLEY
DAAT Research	Dvinsky	Arkady	S	92-NA-151		TISHKOFF

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Dartmouth College	Lewis	H	R	92-NE-207		BARKER
Defense Technical Information Center	Fox	Setty		92-XO-007	A	OWENS
Detroit Univ. Mercy - Coll of Eng & Sci	Eagle	Paul	J	92-NA-170		WU
Dow Chemical Co	Pierini	Peter	E	92-MC-212	A	LEE
Duke University	Schaeffer	David	G	92-MM-211		MACHMAN
EIC Laboratories Inc	Rose	Timothy	L	92-MC-214	A	LEE
Electro Clean Corp.	Lin	G	H	92-NE-221		POMRENKE
Emcore Corporation	Dr Hong Liu	Gary S. Tompa	E	92-NE-181		POMRENKE
European Office of Aerospace R&D	Dymek	Chester		92-MC-223	A	LEE
Florida International University	Larkins	Gover	L	92-NE-241	A	WEINSTOCK
Florida State University	Krothapalli	Anjaneyulu	G	92-NA-150		MCMICHAEL
Fluents, Inc.	Schwartz	Daniel		92-NA-217		WAKSMAN
Foster-Miller Inc	Missaghi	Moheb		92-NA-176		TISHKOFF
GTE Laboratories	Drury	Mark	A	92-MC-155		LEE
George Mason University	Vicharelli	Pablo	A	92-NE-231		KELLEY
Georgia Institute of Tech	Jajodia	Sushil		92-MM-257		LUPO
Georgia Tech Research Corporation	Kennedy	T.A. Brian	L	92-MM-293		MACHMAN
	Bardichevsky	Victor		92-NA-168		WU
	Eckert	Charles	A	92-MC-216		HEDBERG
	Flannery	Martin	R	92-NE-244	A	KELLEY
	Gole	James	L	92-MC-209	A	PERRAM
Gordon Research Conferences Inc	Bercas	John	E	92-MC-139		HEDBERG
	Pearson	Dale	S	92-MC-189		LEE
	Ritchie	Robert	O	92-MC-218		ROSENSTEIN
	Rozzell	David		92-MC-174		HEDBERG
	Weber	Marvin	J	92-MC-219	D	ERSTFELD
Jumbs Associates, Inc	Chandrasekhar	P.		92-MC-213	A	LEE
Harvard University	Ektrom	Goran		92-MC-149	A	STOBIE
	Yuille	Alan		92-MM-269		SUDDARTH
	Wu	S.	C	92-MC-222		LEE
Hughes Aircraft Co	Hasenberg	T		92-NE-245		CRAIG
Hughes Aircraft Corp Research Labs	Gumbs	Godfrey		92-MC-210	D	POMRENKE
Hunter College - CUNY	Heaston	Robert	J	92-MM-286	A	SUDDARTH
Ill Research Institute	Mandal	Braja	K	92-MC-142		LEE
Illinois Institute of Technology	Ucci	Donald	R	92-MM-199		SUDDARTH
Inst. of Electrical & Electronics Engrg	Wangemann	Robert	T	92-NE-197	A	SCHLOSSBER
Jet Process Corporation	Malpern	Bret	L	92-MC-194	D	ERSTFELD
				92-MC-197	D	LEE
				92-NE-220		POMRENKE
Jet Propulsion Laboratory	Marder	S.	R	92-MC-160	A	LEE
				92-MC-161	A	LEE
				92-MC-161	A	SUDDARTH
Johns Hopkins University	Thakoor	A.	P	92-MM-284	A	LUPO
	Mason	Gerald	M	92-MM-236		FREGLY
	Yantis	Steven	R	92-MC-127	A	BURGGRAF
	Yarkony	David	E	92-MC-137		LUPO
	Zmarico	Amy	J	92-MM-241		MADDAD
Kent State University	Glass	David		92-MC-158		LEE
Laser Photonics Technology Inc	Burzynski	Ryszard		92-MC-170	A	

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS - 'A' = ACCEPTED, 'O' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Laser Science, Inc.	Nordstrom	Robert		92-NE-217		KELLEY
Linares Management Assoc, Inc. (LMAINC)	Linares	Robert	C	92-NE-222		POMRENKE
Lockheed Missiles & Space Co Inc	Simoudis	Evangelos		92-NM-290		WAKSMAN
	Topka	Kenneth	P	92-NL-152		RADOSKI
Louisiana Tech University	Guo	Zicheng	F	92-NE-235		CRAIG
Mainstream Engineering Corporation	Parrish	Clyde	F	92-NA-161		TISHKOFF
Massachusetts General Hospital	Dautsch	Thomas	F	92-NL-145		BERRY
Massachusetts Institute of Technology	Dugundgi	Gene	F	92-NI-006	A	BOLAND
	Fujimoto	John	G	92-NA-184		WU
	Ghomien	James	F	92-NL-144		BERRY
	Meingalllis	Ahaed	F	92-NA-179		TISHKOFF
	Rhine	John	E	92-NE-208	A	SCHLOSSBER
	Silbey	Wendell		92-NC-203	D	ERSTFELD
	Tedrow	Robert	M	92-NC-168		BURGGRAF
	Toksoz	Paul		92-NI-005	A	BOLAND
	Wurtele	Robert	M	92-NL-151	A	STOBIE
McDonnell Aircraft Company	Wise	M. Nafi	S	92-NM-268		NACHMAN
McHerry Medical College	Kurtz	Jonathan		92-NM-203		JACOBS
Memphis State University	Francome	Kevin	J	92-NL-128		CORNETTE
Microtronics Associates, Inc.	Scott	James	A	92-NC-173		BURGGRAF
Minerals, Metals & Materials Society	Bowers	Henry	H	92-NE-185	A	POMRENKE
Montana State University	Dirks	M		92-NC-211		ROSENSTEIN
National Center for Atmospheric Research	Casassa	Alexander	A	92-NL-156		JACOBS
National Inst. of Standards & Technology	Mahoney	Kenneth	P	92-NL-138		STOBIE
National Science Foundation	Phinney	Richard	J	92-NC-138	A	BERMAN
	Jay	Michael		92-NI-004	A	CAVENDER
Naval Post Graduate School	Luqi	Thomas		92-NL-135	A	STOBIE
	Hanzevack	Robert		92-NM-224	A	LUPO
Norredyne, Inc.	Pulafito	Robert	L	92-NM-258		LUPO
New England Medical Center Hospital	Stoyenko	Emil	A	92-NA-177		TISHKOFF
New Jersey Institute of Technology	Ziavras	Carmen	D	92-NL-143		BERRY
	Williamson	Alexander	G	92-NM-266		LUPO
New York University	Lala	Sotirios	J	92-NM-221		JACOBS
North Carolina A&T State University	Agrawal	Samuel	K	92-NL-157		TANCNEY
North Carolina State University	Reeves	Parag	P	92-NE-247		CRAIG
	Shearer	Dharma	S	92-NM-237		LUPO
Northeastern University	Vittoria	Douglas		92-NM-262		LUPO
Northern Illinois University	Spanqler	Michael	M	92-NM-206		NACHMAN
Northeastern University	Reiss	Carmine	A	92-NM-209		NACHMAN
	Tankin	Charles	M	92-NC-178		LEE
Ohio University	Graham	E.	L	92-NM-204		NACHMAN
Oklahoma State University	Raff	Richard	S	92-NA-186	A	TISHKOFF
	Thompson	Gary	M	92-NA-173		FANT
Optivision, Inc.	Goodman	Lionel	M	92-NC-162		BURGGRAF
Parke Mathematical Laboratories, Inc.	Aramington	Donald	L	92-NC-225		BURGGRAF
Pennsylvania State University	Agrawal	Joseph	M	92-NE-175	A	CRAIG
		Alton	F	92-NC-187	D	ERSTFELD
		Dinesh	K	92-NC-220		HEDBERG

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
		Bianconi	Patricia	A	92-NE-223		POMRENKE
		Broen	Paul		92-NC-228	D	BURGGRAF
		Smith	Gerald	A	92-NE-215	A	KELLEY
Phase Corporation	Physical Optics Corporation	Coffey	Michael	P	92-NE-227	A	KELLEY
		Manasson	Vladimir		92-NC-185	A	ERSTFELD
		Ople	David		92-NE-180	A	POMRENKE
Physics Innovations, Inc.	Polytechnic Institute of New York	Parker	Terence	S	92-NE-218	A	KELLEY
		Chun	Cornell		92-NE-237		TISHKOFF
		Oyibo	Gabriel		92-NA-163		ERSTFELD
Princeton University		Forrest	Stephen		92-NE-212		CRAIG
		Glassman	Stephen		92-NE-239		POMRENKE
		Lam	Irvin		92-NA-141		TISHKOFF
Purdue Research Foundation		Malik	C	K	92-NA-154	A	BIRKAN
		Mease	Sharad	D	92-NA-154		LUPO
		DeCarlo	Kenneth		92-NM-240		JACOBS
Queens College	Radiation Monitoring Devices, Inc.	Helster	Salvatore		92-NC-231	D	BURGGRAF
		Murthy	Raymond	A	92-NM-273		JACOBS
		Squillante	Stephen	D	92-NA-182		BIRKAN
Rensselaer Polytechnic Institute		Cole	S N I		92-NA-187		SAKELL
		Saulnier	Harry		92-NC-193	D	ERSTFELD
		Szyanski	Michael	R	92-NE-226		POMRENKE
Rice University		Dennis, Jr.	Julian	D	92-NM-273		NACHMAN
		Freeman	Gary	J	92-NM-198		SJOGREN
		Kinsey	Boleslaw	K	92-NM-251		LUPO
Rincon Research Corp.	Rockwell International	Parker	John	E	92-NM-218	A	GLASSMAN
		Holmes	John	W	92-NL-130		RADOSKI
		Chlou	James	L	92-NC-180	A	BURGGRAF
Rockwell International, Science Center	Rutgers - The State University	Grigoriadis	Mike	S	92-NE-216		KELLEY
		Minsky	Richard	E	92-NE-205		CRAIG
		Benaroya	A	D	92-NE-196		NACHMAN
SFA, Inc.	SOLARWATT	Knigh	Michael	H	92-NM-214		LUPO
		Golding	Naftaly		92-NM-242		WU
		Homes	Hava		92-NA-159		SAKELL
SRI International	Schmidt Instruments	Shockey	Doyle	M	92-NA-193	A	KELLEY
		Jamison	William	A	92-NM-131		POMRENKE
		Rosenhaus	Thomas		92-NE-223		KELLEY
Southern Illinois University	Spire Corporation	Spector	Ravinder	A	92-NE-192		JONES
		Greenwald	Donald		92-NA-167		POMRENKE
		Vernon	Keith		92-NE-188		NACHMAN
Stanford University		Bates, Jr	Vladimir	J	92-NM-212	A	NACHMAN
		Cappelli	Scott	C	92-NM-200		POMRENKE
		Chang	Anton	M	92-NE-184		POMRENKE
			Stanley	M	92-NE-186		BARKER
			Clayton	A	92-NE-204		BIRKAN
			Mark		92-NA-183		JONES
			Fu-Kuo		92-NA-140		

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Central Florida	Moser	Louise		E	32-NM-263		LUPO
	Rodwell	Mark			32-NE-211	A	SCHLOSSER
	Weinberg	W. Henry			32-NC-188		BURGGRAF
	Wootke	Alec		M	32-NC-163		BERMAN
Univ of Chicago	Choudhury	S. Roy			32-NM-275		NACHMAN
	Silfvast	William		T	32-NE-242	A	SCHLOSSER
	Berry	R. Stephen			32-NC-210		BERMAN
	Sibener	Steven		J	32-NC-192		ERSTFELD
Univ of Cincinnati	Garrett	Patrick		M	32-NM-195		WAKSMAN
	Ghia	Kirti		N	32-NA-164	A	FANT
	Kosel	Peter		J	32-NI-012	A	BOLAND
	Nayfeh	Adnan		H	32-NA-180		JONES
Univ of Colorado	Sauer	Jon		R	32-NE-246		CRAIG
	William	Kaspar			32-NA-135		JONES
	William	Kaspar			32-NA-190		JONES
	McCormick	Stephen		F	32-NM-283		NACHMAN
Univ of Colorado at Denver	Pollack	Edward			32-NE-177		KELLEY
	Sung	C. S.		P	32-NC-166	D	LEE
	Amse	Robert		C	32-NC-191		ERSTFELD
	Hanson	Robert		D	32-NC-182	A	BERMAN
Univ of Denver	Cooabe	Eric			32-NM-289		WAKSMAN
	Lee	Yann-Hang			32-NM-248		LUPO
	Reynolds	John		R	32-NC-230		LEE
	Varink, Jr.	Ellis		S	32-NC-164		ROSENSTEIN
Univ of Hawaii	Yau	Stephen			32-NM-243		LUPO
	Chang	Che-Chen			32-NC-229		ROSENSTEIN
	Hac	Anna			32-NM-225		LUPO
	Roitolat	Harbert		L	32-NL-140		TANGNEY
Univ of Houston	White	Kenneth		J	32-NC-179		BURGGRAF
	Donchin	Emanuel			32-NL-132		TANGNEY
	Eden	J		G	32-NE-198		POHREMKE
	Gellman	Andrew		J	32-NC-207	A	ERSTFELD
Univ of Illinois	Liu	J. W. S.			32-NM-229		LUPO
	Poulikakos	D.			32-NA-153	A	BIRMAN
	Sistla	A. Prasad			32-NM-235		LUPO
	Wieckowski	Andrzej			32-NC-143	A	WILKES
Univ of Kentucky	Wolfson	Ouri			32-NM-239		LUPO
	Govindarajula	Lakkula			32-NM-253		LUPO
	Mehrotra	Rajiv			32-NM-193		SJOGREN
	Ebanks	Bruce		R	32-NM-282		WAKSMAN
Univ of Kentucky Research Foundation	Ajraeala	Athok		K	32-NM-291		WAKSMAN
	Arsenault	Richard		J	32-NM-225		LUPO
	Basili	Victor		R	32-NC-165		BURGGRAF
	Chen	Hsing-Hen			32-NM-281		LUPO
Univ of Louisville	Gerder	Richard			32-NM-270		SUDDARTH
	Hill, III	Wendell		T	32-NM-265		LUPO
	Weiss	Isaac			32-NE-213		KELLEY
					32-NM-296		WAKSMAN

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Maryland, Baltimore County Univ of Massachusetts	Zelkowitz	Marvin	V	92-NM-213			LUPO
	Mathew	Thomas		92-NM-292			SJOGREN
	Ganz	Aurj		92-NM-233			LUPO
	Krishna	C. Mani	V	92-NM-232			LUPO
Univ of Michigan	Nair	Shantikumar		92-NA-173			JONES
	Stankovic	John	A	92-NM-243			LUPO
	Wileden	Jack	C	92-NM-246			LUPO
	Faeth	Gerard	M	92-NA-160	A		TISHKOFF
Univ of Minnesota	Halloran	John	W	92-NA-144			JONES
	Khartonekar	Pramod	P	92-NM-271			JACOBS
	Miller, Jr.	Willard		92-NM-213			JACOBS
	Tannenbaum	Allen		92-NM-219			JACOBS
Univ of Mississippi	Kajfez	Darko		92-NM-197			NACHMAN
Univ of Missouri	Kumar	Vijay		92-NM-252			LUPO
Univ of Nebraska	McMillin	Bruce	M	92-NM-220			LUPO
	Willett	Joseph	E	92-NL-141			RADOSKI
	Kieckhafer	Roger	M	92-NM-244			LUPO
	Pittler	Richard	L	92-NL-139			STOBIE
Univ of Nevada	Sivabrazad	Kondagunta		92-NI-008	A		BOLAND
Univ of New Hampshire	Hampden-Smith	Mark	J	92-NC-177			ERSTFELD
Univ of New Mexico	Truman	Randall		92-NA-139			TISHKOFF
Univ of North Carolina Univ of Oregon	Hall	Joseph	W	92-NL-155			TANGNEY
	Ginsberg	Matthew	L	92-NM-295			WAKSMAN
	Girardau	Marvin	J	92-NE-176			KELLEY
	Hosberg	Thomas	W	92-NE-240			CRAIG
Univ of Pennsylvania	Dailey, III	William	P	92-NC-190	A		BERMAN
Univ of Pittsburgh	Hashin	Zvi		92-NA-162			JONES
	Zeratan	David	N	92-NC-208			LEE
	Sotliff	Corothy	E	92-NM-231			LUPO
	Weiner	Brad	R	92-NC-206			BERMAN
Univ of Puerto Rico, Rio Piedras	Merigan	William	H	92-NL-138	A		TANGNEY
Univ of Rochester	Mukamel	Shaul		92-NC-171			LEE
Univ of South Florida Univ of Southampton	Lam	Autar	K	92-NA-158			JONES
	Dyke	J.	N	92-NC-183			BERMAN
	Danzig	Peter	3	92-NM-250			LUPO
	Jenkins	S	K	92-NE-214			CRAIG
Univ of Tennessee	Rader	Mark		92-NE-232			BARKER
Univ of Tennessee / Space Institute	Vakili	Ahmad	D	92-NA-149			SAKELL
Univ of Texas	Emerson	E. Allen		92-NM-256			LUPO
Univ of Tennessee	Gonzalez	Mario	J	92-NM-234			LUPO
	Heelis	Roderick	A	92-NL-131			STOBIE
	Heinzen	Daniel	J	92-NE-234	A		KELLEY
	Kallinderis	John		92-NA-192	A		SAKELL
Univ of Texas Health Science Ctr Univ of Texas, El Paso	Kavi	Krishna	M	92-NM-259			LUPO
	Kung	Chenho		92-NM-277			LUPO
	Lee	John		92-NL-148			HADDAD
	Chang	Vi-Chieh	C	92-NM-245			LUPO
Univ of Vermont	Varhue	Walter		92-NE-248			POMRENKE

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Virginia	Herakovich	Carl		T	92-NA-194		JONES
	Lisiecka	I.			92-NM-223		JACOBS
	Papantoni-Kazakos	Panayotis			92-NM-287		LUPO
Univ of Washington	Shur	Michael		C	92-NE-209		WITT
	Shad	Alan			92-NM-230		LUPO
	Taya	Minoru			92-NA-166		JONES
Univ of Western Ontario	Mitnell	J.B.A.		M	92-NE-195	A	KELLEY
	Glenberg	Arthur		A	92-NL-136	A	TANGNEY
	Gubner	John		A	92-NM-272		SJOGREN
Univ of Wisconsin	Johnson	Richard		A	92-NM-202		SJOGREN
	Gantendwin	Rex		E	92-NM-228		LUPO
	Sutcliffe	3.		T	92-NC-176		BURGGRAF
Univ of Wyoming	Beaumont	Peter		M	92-NA-142		JONES
	Amann	Larry		P	92-NM-203		SJOGREN
	Cannon	Scott		C	92-NM-227		LUPO
Univ. of Cambridge--Research Grants Sect	Garcia	Sphranis		P	92-NA-143	A	JONES
	Wilkswo	John		P	92-NE-202		WEINSTOCK
	Varhue	Walter		J	92-NE-219		POMRENKE
Vermont Plasma Processing	Reddy	J		N	92-NA-181		JONES
	Woodward	Donald		J	92-NL-133	A	HADDAD
	Kaptein	Henry		C	92-NE-206	A	SCHLOSSER
Virginia Polytechnic Inst & State Univ	Mahalingam	R		C	92-NI-009	A	BOLAND
	Winter	Charles		M	92-NC-141		HEDBERG
	Carper	A. Robert		C	92-NC-153		WILKES
Wake Forest University	Cornelius	Kenneth		C	92-NA-139		SAKELL
	Fahri	Amir		V	92-NA-146		JONES
	Grandhi	Ramana			92-NA-145		JONES
Washington State University	Hong	Lang			92-NA-147		JONES
					92-NM-222		SJOGREN

PART 11

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(CASSERT) EXPERIMENTAL STUDY TO PROMOTE VORTEX INTERACTIONS BY PNEUMATIC BLOWING Bright State University	Cornelius Kenneth	N 12 02/01/92 \$79,517	SAKELL 92-NA-138	
(CASSERT) RESEARCH TRAINING IN LIGHT TRANSMISSION THROUGH TURBULENT SHEAR FLOWS Univ of New Mexico	Truman Randall	N 36 06/01/92 \$132,115	TISHKOFF 92-NA-139	
(CASSERT) PENETRATION IMPACT DAMAGE IN LAMINATED COMPOSITES Stanford University	Chang Fu-Kuo	N 36 06/01/92 \$163,573	JONES 92-NA-140	
(CASSERT) SCIENCE AND ENGINEERING TRAINING IN COMBUSTION AND PROPULSION Princeton University	Glassman Irvin	N 36 06/01/92 \$261,310	TISHKOFF 92-NA-141	
(CASSERT) DEVELOPMENT OF DAMAGE TOLERANT CERAMIC COMPOSITES Univ. of Cambridge--Research Grants Sect	Deaumont Peter	N 24 06/01/92 \$130,150	JONES 92-NA-142	
(CASSERT) CONTROL AND VIBRATION SUPPRESSION OF SPACE STRUCTURES Vanderbilt University	Jarcia Edmunda	N 24 07/01/92 \$180,892	JONES 92-NA-143	
(CASSERT) CREEP RESISTANT OXIDE FIBERS Univ of Michigan	Halloran John	N 24 07/01/92 \$177,255	JONES 92-NA-144	
(CASSERT) PROCESS MODELLING AND DESIGN OF ONLINE CONTROL FOR METAL FORMING Bright State University	Grandhi Ramana	N 24 07/01/92 \$89,806	JONES 92-NA-145	
(CASSERT) GAS-LOADED HIGH-TEMPERATURE HEAT PIPE ANALYSIS RELATED TO CONTINUUM TRANSIENT OPERATION AS WELL AS FROZEN STARTUP Bright State University	Amir Amir	N 24 07/01/92 \$119,160	JONES 92-NA-146	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(ASERT) ESTIMATION AND OPTIMAL CONTROL STRATEGIES FOR ADAPTIVE STRUCTURES Wright State University	Grandhi	N 24 07/01/92 \$142,654	JONES 92-NA-147	
ACTIVE CONTROL FOR IMPROVED STORE STABILITY INSIDE AND DURING SEPARATION FROM CAVITIES Univ of Tennessee / Space Institute	Vakili	N 36 24/01/92 \$281,762	SAKELL 92-NA-149	
AN EXPERIMENTAL INVESTIGATION OF ACTIVE CONTROL OF THRUST VECTORING NOZZLE FLOW FIELDS Florida State University	Krothapalli	N 12 27/01/92 \$109,952	MCMICHAEL 92-NA-150	
(SBR) BEHAVIOR OF HYDROCARBON FUELS AT ELEVATED TEMPERATURES AND SUPERCRITICAL CONDITIONS DAAT Research	Dvinsky	N 06 03/02/92 \$49,959	TISHKOFF 92-NA-151	
INTERNATIONAL COMPUTATIONAL FLUID DYNAMICS (ICFD) MEETING Air Force Wright Aeronautical Labs	Shang	N 02 04/02/92 \$30,000	A SAKELL 92-NA-152	\$30,000 14/09/92 \$30,000
DETERMINATION OF STRUCTURE, TEMPERATURE AND CONCENTRATION IN THE NEAR-INJECTOR REGION OF IMPINGING JETS USING HOLOGRAPHIC TECHNIQUE Univ of Illinois	Poulidakos	N 36 04/02/92 \$235,835	A SIRKAN 92-NA-153	\$86,421 01/05/92 \$235,835
DROPLET COLLISION IN LIQUID PROPULSION COMBUSTION Princeton University	Lau	N 36 04/02/92 \$153,000	A SIRKAN 92-NA-154	\$49,000 01/05/92 \$153,000
CHEMICAL REACTIONS IN TURBULENT MIXING FLOWS California Institute of Technology	Dimotakis	R 24 10/02/92 \$953,339	A TISHKOFF 92-NA-155	\$475,988 16/05/92 \$953,339
(SBR) INFLUENCE OF SUPERCRITICAL CONDITIONS ON PRECOMBUSTION CHEMISTRY AND TRANSPORT OF BEHAVIOR OF JET FUELS CFD Research Corp.	Krishnan	N 06 11/02/92 \$50,000	A TISHKOFF 92-NA-156	\$50,000 09/07/92 \$50,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COUPLED FIELDS AND MECHANICS IN MATERIAL SPACE Stanford University	Herrmann George	N 26 11/02/92 \$248,780	JONES 92-NA-157	
FRACTURE MECHANICS OF BRITTLE MATRIX COMPOSITES WITH IMPERFECT INTERFACES Univ of South Florida	Law Astar	N 24 11/02/92 \$103,547	JONES 92-NA-158	
DYNAMICS AND CONTROL OF WAVES IN PERIODIC STRUCTURES WITH NONLINEAR POTENTIAL AND IMPERFECTION Rutgers, The State University	denarova Haym	N 36 11/02/92 \$229,355	WU 92-NA-159	
BREAKUP AND TURBULENCE GENERATION IN DENSE SPRAYS Univ of Michigan	Faeth Gerard	N 36 12/02/92 \$374,177	A TISHKOFF 92-NA-160	\$119,925 15/07/92 \$374,177
(CSIR) INNOVATIVE APPROACH FOR THE DEVELOPMENT OF STABLE HYDROCARBON FUELS AT ELEVATED TEMPERATURES AND SUPERCRITICAL CONDITIONS Mainstream Engineering Corporation	Parrish Clyde	N 06 12/02/92 \$49,830	TISHKOFF 92-NA-161	
THE EFFECT OF MICROCRACKS AND IMPERFECT INTERFACE ON THE THERMO-ELASTIC RESPONSE AND FAILURE OF COMPOSITES Univ of Pennsylvania	Hashin Zvi	N 36 12/02/92 \$333,749	JONES 92-NA-162	
OPTIMUM AEROELASTIC CHARACTERISTICS FOR COMPOSITE SUPER-MANEUVRABLE AIRCRAFT Polytechnic Institute of New York	Oyibo Gabriel	N 36 14/02/92 \$314,776	WU 92-NA-163	
SIMULATION, ANALYSIS & CONTROL OF UNSTEADY SEPARATION OVER 2-D & 3-D MANEUVERING BODIES USING NAVIER-STOKES EQUATIONS Univ of Cincinnati	Ghia Kirti	N 36 18/02/92 \$562,222	A FANT 92-NA-164	\$163,707 15/05/92 \$562,222
DIRECT NUMERICAL SIMULATION OF TURBULENCE INTERACTING WITH SHOCK WAVES IN SUPERSONIC AND HYPERSONIC Univ of Alabama	Chung T J	N 24 18/02/92 \$103,609	SAKELL 92-NA-165	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DAMAGE ACCUMULATION IN ADVANCED METAL MATRIX COMPOSITES UNDER THERMAL CYCLING/CREEP LOADINGS Univ of Washington	Taya	N 36 24/02/92 \$169,201	JONES 92-NA-166	
MICROSTRUCTURE/PROPERTY RELATIONSHIPS FOR METAL MATRIX COMPOSITES	Shockey	N 36 24/02/92 \$299,738	JONES 92-NA-167	
SRI International	Donald			
THERMODYNAMICS OF LOW-DIMENSIONAL CHAOS	Serdichevsky	N 36 24/02/92 \$324,700	WU 92-NA-168	
Georgia Tech Research Corporation	Victor			
(SBIR) GLOBAL MEASUREMENTS OF FOULING AND TRANSPORT BEHAVIOR FOR AIRCRAFT FUELS NEAR THE CRITICAL POINT Physical Sciences Inc	Parker	N 06 25/02/92 \$49,539	TISHKOFF 92-NA-169	
DEVELOPMENT OF AN IN-SITU SENSING METHOD FOR MULTIDIMENSIONAL STRAIN MEASUREMENT IN COMPOSITE LAMINATES Detroit Univ. Mercy - Coll of Eng & Sci	Eagle	N 36 26/02/92 \$248,983	WU 92-NA-170	
NON-IDEAL EFFECTS IN EXPERIMENTAL NONLINEAR AERODYNAMICS	Graham	N 24 26/02/92 \$94,402	FANT 92-NA-173	
Ohio University	Gary			
(SBIR) SOLVING CLUSTER ION THRUSTER PROBLEMS WITH C60	Bates	N 06 02/03/92 \$59,208	BIRKAN 92-NA-174	
Advanced Fuel Research Inc.	Stephen			
(SBIR) A HIGH THRUST DENSITY, C60 CLUSTER, ION THRUSTER	Hruby	N 06 02/03/92 \$69,981	A BIRKAN 92-NA-175	\$69,981 09/07/92 \$69,981
Busek Co, Inc.	V			
(SBIR) COMPUTER MODELING OF AUTO-OXIDATION AND DEPOSIT FORMATION OF AVIATION FUELS Fluents, Inc.	Missaghi	N 06 02/03/92 \$49,707	TISHKOFF 92-NA-176	
	Moheb			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBR) NEURAL COMPUTATIONAL ANALYSIS AND DESIGN TOOL FOR COMPLEX COOLING SYSTEMS Neurodyne, Inc.	Hanzewack Email	N 06 02/03/92 \$55,395	TISHKOFF 92-NA-177	
MECHANICS AND MECHANISMS OF HIGH TEMPERATURE CRACK GROWTH IN A WOVEN CONTINUOUS FIBER REINFORCED SIC/SIC CERAMIC COMPOSITE Univ of Massachusetts	Naif Shantikumar	N 36 04/03/92 \$266,949	JONES 92-NA-178	
REACTION ZONE MODELS FOR VORTEX SIMULATION OF TURBULENT COMBUSTION Massachusetts Institute of Technology	Ghonies Ahmed	N 36 04/03/92 \$453,219	TISHKOFF 92-NA-179	
A BASIC RESEARCH PROGRAM FOR THE CHARACTERIZATION OF THE MECHANICAL BEHAVIOR OF TEXTILE-TYPE COMPOSITES Univ of Cincinnati	Mayfeh Adnan	N 36 04/03/92 \$257,470	JONES 92-NA-180	
DEVELOPMENT OF GLOBAL/LOCAL COMPUTATIONAL PROCEDURES FOR THE ANALYSIS OF LAMINATED COMPOSITE PLATES & SHELLS Virginia Polytechnic Inst & State Univ	Raddy J	N 36 04/03/92 \$317,317	JONES 92-NA-181	
MODELING OF LIQUID JET ATOMIZATION PROCESSES Purdue Research Foundation	Heister Stephen	N 24 04/03/92 \$80,000	BIRKAN 92-NA-182	
FUNDAMENTAL STUDIES OF THE ELECTRODE REGIONS IN ARCJET THRUSTERS Stanford University	Cappelli Mark	N 36 04/03/92 \$275,075	BIRKAN 92-NA-183	
NONLINEAR AEROELASTIC ANALYSIS FOR STALL FLUTTER OF AIRCRAFT Massachusetts Institute of Technology	Dugundgi John	N 14 04/03/92 \$119,968	WU 92-NA-184	
PARTICLE DISPERSION IN TURBULENT SPRAYS Univ of California, Davis	Kennedy Ian	N 36 04/03/92 \$210,093	TISHKOFF 92-NA-185	\$65,606 01/07/92 \$210,093

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
USE OF MAXIMUM ENTROPY PRINCIPLE AS A GUIDE IN DESIGN OF SPRAY OF A SPRAY NOZZLES Northwestern University	Tankin Richard	N 32 04/03/92 \$218,711	A TISHKOFF 92-NA-186	\$52,539 15/06/92 \$221,711
INFLUENCE OF ENTROPY LAYER ON HEAT TRANSFER Purdue Research Foundation	Murthy S N S	N 36 16/03/92 \$245,437	SAKELL 92-NA-187	
MICRO-STRUCTURE IN PARTICULATE MEDIA - A LATTICE TYPE APPROACH AND ITS VALIDATION Univ of Arizona	Budhu Muniram	N 36 18/03/92 \$306,140	LEWIS 92-NA-188	
MICROMECHANICALLY BASED STUDY OF LOCALIZATION OF DEFORMATION AND SHEAR BANDS FORMATION IN BRITTLE MATERIALS Tufts University	Kachanov Mark	N 36 18/03/92 \$216,798	JONES 92-NA-189	
REGULARIZATION OF LOCALIZED DEGRADATION PROCESSES Univ of Colorado	Kassar William	N 36 24/03/92 \$162,856	JONES 92-NA-190	
RESEARCH ON ELECTROSTATIC PROPULSION USING C60 MOLECULES California Institute of Technology	Goodwin D.	N 36 25/03/92 \$401,300	BIRKAN 92-NA-191	
ADAPTIVE ALGORITHM FOR AIRCRAFT CONFIGURATIONS IN TURBULENT FLOW Univ of Texas	Kallinderis John	N 12 27/03/92 \$10,000	A SAKELL 92-NA-192	\$10,000 25/03/92 \$10,000
THEORETICAL INVESTIGATION OF THREE-DIMENSIONAL SHOCK WAVE- TURBULENT BOUNDARY LAYER INTERACTIONS Rutgers The State University	Knight Doyle	N 12 27/03/92 \$10,000	A SAKELL 92-NA-193	\$10,000 25/03/92 \$10,000
INELASTIC THERMOMECHANICAL RESPONSE OF METAL MATRIX COMPOSITES WITH DAMAGE Univ of Virginia	Horakovich Carl	N 36 31/03/92 \$377,583	JONES 92-NA-194	

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TITLE
TITLE (C&J.)
INSTITUTION

REGULARIZATION OF LOCALIZED DEGRADATION PROCESSES

Univ of Colorado

INVESTIGATOR

William

Kaspar

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
31/03/92
\$162,856

STATUS
PROGRAM MANAGER
PROPOSAL #

JONES
92-NA-195

INITIATE
START DATE
TOT AMT

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ON THE ORIGIN OF METASTABILITY IN ENERGETIC SPECIES AND THE MECHANISM OF ION-MOLECULE REACTIONS Johns Hopkins University	Yarkony David	N 36 06/01/92 \$338,401	BURGGRAF 92-NC-137	
PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS National Inst. of Standards & Technology	Casassa Michael	N 12 07/01/92 \$150,000	A BERMAN 92-NC-138	\$100,000 01/10/91 \$150,000
1992 GORDON RESEARCH CONFERENCE ON ORGANOMETALLIC CHEMISTRY Gordon Research Conferences Inc	Jercan John	N 12 07/01/92 \$9,955	HEDBERG 92-NC-139	
SYNTHESIS AND PROPERTIES OF PERFLUOROCYCLOPENTADIENE AND PERFLUORO- RUTHENOCENE. A POTENTIAL NEW CLASS OF HIGH TEMPERATURE MATERIALS Wayne State University	Winter Charles	N 36 09/01/92 \$233,646	HEDBERG 92-NC-141	
NEW ELECTRO-OPTIC POLYMERIC MATERIALS INCORPORATED WITH MACROCYCLIC RINGS Illinois Institute of Technology	Mandal Girja	N 36 14/01/92 \$547,142	LEE 92-NC-142	
IONIC & MOLECULAR ENVIRONMENTS IN HETEROGENEOUS ELECTROCATALYSIS: STUDIES BY RADIOACTIVE LABELING & LEED/AUGER SPECTROSCOPY Univ of Illinois	Wieckowski Andrzej	R 12 14/01/92 \$120,000	A WILKES 92-NC-143	\$120,000 01/05/92 \$120,000
THE PREPARATION OF DEHYDROGENATION CATALYSTS BY THE PHOTODECOMPOSITION OF PLATINUM METAL COMPLEXES Green University	Wold Aaron	N 36 15/01/92 \$304,271	ERSTFELD 92-NC-144	
NOVEL POLING PROCESS FOR ELECTRO-OPTIC POLYMERS WITH IMPROVED TEMPORAL STABILITY Foster-Miller Inc	Druy Mark	N 06 15/01/92 \$59,721	LEE 92-NC-155	
ENHANCED CHROMOPHORE POLYMERIC NLO MATERIALS Adtech Systems Research Inc.	Soni Som	N 06 15/01/92 \$59,373	A LEE 92-NC-156	\$59,373 01/07/92 \$59,373

TITLE
TITLE (CONT.)
INSTITUTION INVESTIGATORTYPE/MONTHS
RECEIVED
AMOUNT STATUS
PROGRAM MANAGER
PROPOSAL # INITIATE
START DATE
TOT AMTINVESTIGATION OF AN ADVANCED CVD PROCESS TO FORM CREEP RESISTANT
SILICON CARBIDE FILAMENTS
Textron Specialty Materials KruttsatN 12
16/01/92
\$509,304
BURGGRAF
92-NC-158

ROOM TEMPERATURE MOLTEN SALT MICRODYNAMICS

N 48
16/01/92
\$453,895WILKES
92-NC-159

Wichita State University

Carper

W. Robert

APPROACHES FOR OPTIMIZING THE FIRST ELECTRONIC
HYPERPOLARIZABILITIES OF CONJUGATED ORGANIC MOLECULES
Jet Propulsion Laboratory HarderN 12
17/01/92
\$164,000
LEE
92-NC-160
\$164,000
\$164,000HIGH CONTRAST ORGANIC CRYSTAL OPTICAL MODULATOR FOR PHASED ARRAY
ANTENNA AND OPTICAL SIGNAL PROCESSING SYSTEMS
Jet Propulsion Laboratory HarderN 12
17/01/92
\$85,000
LEE
92-NC-161
\$85,000
\$85,000

PROJECTS IN THEORETICAL CHEMISTRY FOR EPSCOR STUDENTS

N 36
23/01/92
\$88,657

Oklahoma State University

Raff

Lionel

VIBRATIONAL RELAXATION OF HIGHLY VIBRATIONALLY EXCITED NO IN THE
UPPER ATMOSPHERE AND ITS IMPLICATIONS FOR ATMOSPHERIC INFRARED ...
Univ of California, Santa Barbara WodtkeN 36
23/01/92
\$597,523
BERMAN
92-NC-163
\$597,523THE ROLE OF NITROGEN IN THE SELECTIVE OXIDATION ALUMINUM &
TITANIUM DURING THE HIGH TEMPERATURE OXIDATION OF ALLOYS OF NIOBIUM
Univ of Florida Verink, Jr.N 36
23/01/92
\$425,283
ROSENSTEIN
92-NC-164
\$425,283

INTERFACES IN COMPOSITES

N 36
28/01/92
\$508,255

Univ of Maryland

Arsenault

Richard

CURE AND WATER MONITORING IN SELECTED POLYMERS

N 36
28/01/92
\$476,949

Univ of Connecticut

Sung

C. S.

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INNOVATIVE PROCESSING OF INTERMETALLIC MATERIALS AND METAL-MATRIX COMPOSITES Cornell University	Jass Stephen	N 07 23/01/92 \$12,500	A ROSENSTEIN 92-MC-167	\$12,500 01/02/92 \$12,500
THEORETICAL STUDIES OF NON LINEAR OPTICAL PROPERTIES OF CONJUGATED POLYMERS Massachusetts Institute of Technology	Silbey Robert	N 36 28/01/92 \$354,399	BURGGRAF 92-MC-168	
PHYSICAL CHEMICAL STUDIES OF CONDUCTING POLYMERS: EFFECTS OF DOPING AND NANOMETER SCALE MORPHOLOGY ON TRANSPORT AND EQUILIBRIA Univ of California, Los Angeles	Reiss Howard	N 36 30/01/92 \$303,284	LEE 92-MC-169	
NOVEL SOL-GEL COMPOSITE SECOND HARMONIC GENERATOR AND ELECTROOPTIC MODULATOR Laser Photonics Technology Inc	Burzynski Ryszard	N 24 31/01/92 \$499,657	A LEE 92-MC-170	\$250,000 01/07/92 \$499,658
MOLECULAR NONLINEAR OPTICAL SUSCEPTIBILITIES IN CONDENSED PHASES Univ of Rochester	Mukamel Shaul	N 36 03/02/92 \$473,750	LEE 92-MC-171	
SILICON ETCHING AND GROWTH MECHANISMS VIA AB INITIO-DERIVED SURFACE DYNAMICS Univ of California, Los Angeles	Carter Emily	N 36 04/02/92 \$323,257	BURGGRAF 92-MC-172	
CALCULATION OF NONLINEAR OPTICAL PROPERTIES Memphis State University	Kurtz Henry	N 36 04/02/92 \$269,165	BURGGRAF 92-MC-173	
1992 GORDON RESEARCH CONFERENCE ON BIOCATALYSIS Jordan Research Conferences Inc	Rozzell David	N 12 05/02/92 \$3,930	HEDBERG 92-MC-174	
MOLECULAR BOXES WITH CONTROLLABLE LIDS Trinity College	Davis A.	N 36 05/02/92 \$149,100	LEE 92-MC-175	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
THE CALCULATION OF HIGHLY EXCITED ROTATION-VIBRATION STATES OF SOME SMALL MOLECULES OF ATMOSPHERIC AND IONOSPHERIC INTEREST Univ of York	Sutcliffe	N 36 05/02/92 \$295,597	BURGGRAF 92-MC-176	
HYDROLYSIS AND CONDENSATION OF TIV (IV) ALKOXIDE COMPOUNDS: THE CONTROL OF STRUCTURAL EVOLUTION Univ of New Mexico	Hampden-Smith	N 36 05/02/92 \$437,032	ERSTFELD 92-MC-177	
STRUCTURE-PROPERTY RELATIONSHIPS IN THE DESIGN OF NEW ORGANIC MATERIALS WITH ENHANCED NLO RESPONSE Northern Illinois University	Spangler	N 36 07/02/92 \$354,791	LEE 92-MC-178	
DEVELOPMENT OF BORON-MODIFIED CARBON/CARBON COMPOSITE MICROSTRUCTURES FOR IMPROVED ELEVATED TEMPERATURE FRACTURE BEHAVIOR Univ of Houston	White	N 36 10/02/92 \$487,566	BURGGRAF 92-MC-179	
ENERGY AND CHEMICAL CHANGE: IONIC PROCESSES Rice University	Kinsey	N 48 10/02/92 \$140,100	BURGGRAF 92-MC-180	
SYNTHESIS AND CHARACTERIZATION OF CONJUGATED POLYMER MEMBRANES FOR GAS SEPARATIONS Univ of California, Los Angeles	Kaner	N 36 12/02/92 \$286,267	LEE 92-MC-181	
REACTIONS AND SPECTROSCOPY OF EXCITED NITRENES Univ of Denver	Coombe	R 12 12/02/92 \$95,974	A BERMAN 92-MC-182	\$95,974 01/05/92 \$95,974
IONIZATION STUDIES OF METALS AND METAL OXIDES OF IMPORTANCE IN THE UPPER ATMOSPHERE Univ of Southampton	Dyke	N 36 12/02/92 \$80,974	BERMAN 92-MC-183	
CONJUGATED POLYMERS FROM CYCLOHEXADIENEDIOL MONOMERS California Institute of Technology	Grubbs	N 36 12/02/92 \$304,405	HEDBERG 92-MC-184	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
IMPROVED OXIDATION RESISTANCE OF 3-D CARBON/CARBON COMPOSITES Phasex Corporation	Gaffay Michael	N 06 14/02/92 \$70,950	A ERSTFELD 92-NC-185	\$70,950 01/07/92 \$70,950
NOVEL CHEMISTRY FOR TEMPERATURE - RESISTANT LUBRICANTS Surfaces Research & Applications, Inc.	Sutor Paul	N 06 14/02/92 \$49,381	D ERSTFELD 92-NC-186	
SYNTHESIS OF BORON BASED SINGLE CRYSTAL WIDE BANDGAP SEMICONDUCTOR Parke Mathematical Laboratories, Inc.	Arminston Alton	N 06 14/02/92 \$49,099	D ERSTFELD 92-NC-187	
FUNDAMENTAL STUDIES OF THE CHEMISTRY OF MOE-GROWN SURFACES OF IACS: ETCHING AND PASSIVATION Univ of California, Santa Barbara	Weinberg A. Henry	N 36 14/02/92 \$650,778	BURGGRAF 92-NC-188	
1992 GORDON RESEARCH CONFERENCE ON POLYMER PHYSICS Gordon Research Conferences Inc	Pearson Dale	N 06 18/02/92 \$2,000	LEE 92-NC-189	
SYNTHESIS OF POTENTIAL HIGH-ENERGY FUELS Univ of Pennsylvania	Dailly, III William	N 12 18/02/92 \$30,000	A BERMAN 92-NC-190	\$30,000 01/06/92 \$30,000
STUDIES OF OXYGEN ATOM INTERACTIONS WITH SURFACES RELEVANT TO THE SPACE ENVIRONMENT Univ of Denver	Amme Robert	N 36 18/02/92 \$976,926	ERSTFELD 92-NC-191	
DYNAMICS OF GAS SURFACE INTERACTIONS Univ of Chicago	Sibener Steven	N 36 18/02/92 \$523,015	ERSTFELD 92-NC-192	
PHOTODEPOSITION OF METAL OXIDES OF GLASS: A PHOTOCHEMICAL APPROACH TO INTEGRATED OPTICS Queens College	Gafney Harry	N 36 20/02/92 \$614,051	D ERSTFELD 92-NC-193	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
JET VAPOR DEPOSITION OF SEMICONDUCTOR-CLUSTER-EMBEDDED THIN FILMS FOR NONLINEAR OPTICS Jet Process Corporation	Halpern Kelly	N 06 21/02/92 \$50,000	D ERSTFELD 92-NC-194	
ENHANCED LOW COST MICROWAVE PLASMA SURFACE TREATMENT CENTER FOR POLYMER AND CARBON COMPOSITE FIBERS AND TAPES CYKL Technology, Inc.	James	N 06 21/02/92 \$49,973	D LEE 92-NC-195	
DEVELOPMENT OF OXIDATION PROTECTIVE COATING FOR USE ON CARBON- CARBON COMPOSITES ABOVE 2900 F Therma Tech, Inc.	A. Thomas Sibley	N 06 21/02/92 \$50,816	D ERSTFELD 92-NC-196	
HOST-GUEST THIN FILMS FOR NONLINEAR OPTICAL APPLICATIONS Jet Process Corporation	Halpern	N 06 21/02/92 \$50,000	D LEE 92-NC-197	
IN SITU FORMATION OF COMPOSITES BY LASER IRRADIATION ARETEX US Corp.	Radler Richard	N 06 21/02/92 \$49,345	D ERSTFELD 92-NC-198	
EPITAXIAL GROWTH OF SEMICONDUCTORS ON HIGH-TC SUPERCONDUCTOR FILMS Physics Innovations, Inc.	Chun Cornell	N 06 21/02/92 \$50,000	ERSTFELD 92-NC-199	
BIOPOLYMERIC-BASED RECTIFIERS Cambridge Scientific, Inc.	Trantolo Debra	N 06 21/02/92 \$50,000	D LEE 92-NC-200	
BIOPOLYMER-BASED NONLINEAR OPTICAL MATERIALS Cambridge Scientific, Inc.	Trantolo Debra	N 06 21/02/92 \$50,000	D LEE 92-NC-201	
MULTIFUNCTIONAL NONMETALLIC MATERIALS - PREPARATION, PROCESSING AND EVALUATION Advanced Optonics, Inc.	Pan J.	N 06 21/02/92 \$49,980	D LEE 92-NC-202	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SYNTHESIS AND PROCESSING OF MULTI-PHASE CERAMICS FOR AEROSPACE APPLICATIONS Massachusetts Institute of Technology	Rhine	N 36 21/02/92 \$939,792	D ERSTFELD 92-NC-203	
Wendell				
SPECTROSCOPY AND KINETICS OF CHEMICALLY PUMPED NF(1)	KOFFEND	N 12 24/02/92 \$80,000	A PERRAM 92-NC-204	\$80,000 01/12/91 \$80,000
Aerospace Corporation	J. Brooke			
CLUSTER IONS	Bowers	N 36 25/02/92 \$621,360	BERMAN 92-NC-205	
Univ of California, Santa Barbara	Michael			
PHOTOFRAGMENTATION SPECTROSCOPY AND PHOTODISSOCIATION DYNAMICS OF POLYATOMIC MOLECULES	Weiner	N 36 25/02/92 \$357,353	BERMAN 92-NC-206	
Univ of Puerto Rico, Rio Piedras	Brad			
SURFACE SPECIES IN TRIBOLOGY	Gellman	R 12 26/02/92 \$105,502	A ERSTFELD 92-NC-207	\$105,502 15/06/92 \$105,502
Univ of Illinois	Andrew			
THEORETICAL DEVELOPMENT OF STRUCTURE/PROPERTY RELATIONSHIPS FOR ORGANIC THIRD-ORDER NONLINEAR OPTICAL MATERIALS	Berstan	N 36 28/02/92 \$299,134	LEE 92-NC-208	
Univ of Pittsburgh	David			
DEVELOPMENT OF CONTINUOUS VISIBLE CHEMICAL LASER AMPLIFIERS AND OSCILLATORS FROM THE NA3-X(Cl,Br,I) REACTIONS AND THEIR ANALOGS...	Gole	R 12 04/03/92 \$120,000	A PERRAM 92-NC-209	\$120,000 01/06/92 \$120,000
Georgia Tech Research Corporation	James			
PENNING DETACHMENT: A NEW PHENOMENON	Berry	N 36 04/03/92 \$675,934	BERMAN 92-NC-210	
Univ of Chicago	R. Stephen			
THE SIXTH INTERNATIONAL CONFERENCE ON SURFACE MODIFICATION TECHNOLOGIES	Scott	N 12 04/03/92 \$3,500	ROSENSTEIN 92-NC-211	
Minerals, Metals & Materials Society	Alexander			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
P90 FILM FOR USE IN HIGH ENERGY DENSITY CAPACITORS Jow Chemical Co	Pierini Peter	N 24 04/03/92 \$323,095	A LEE 92-NC-212	\$124,372 01/06/92 \$323,095
ULTRAFAST, PASSIVE, BROADBAND OPTICAL SHUTTER BASED ON NOVEL SEMICONDUCTOR/CONDUCTING POLYMER INTERFACES Gumbs Associates, Inc	Chandrasekhar P.	N 06 06/03/92 \$49,883	A LEE 92-NC-213	\$49,883 15/06/92 \$49,884
OPTICALLY SWITCHABLE CONDUCTIVE POLYMERS EIC Laboratories Inc	Rose Timothy	N 06 09/03/92 \$61,500	A LEE 92-NC-214	\$61,500 15/06/92 \$61,501
NOVEL CHEMICAL REACTIVITY WITHIN THE STABILIZING ENVIRONMENT OF MOLECULAR CLUSTERS State University of New York	Garvey James	N 36 10/03/92 \$509,818	BERMAN 92-NC-215	
KINETICS AND PHASE EQUILIBRIA IN SUPERCRITICAL FLUIDS FOR ADVANCED FUEL COMPOSITION AND USE Georgia Tech Research Corporation	Eckert Charles	N 36 10/03/92 \$300,000	HEDBERG 92-NC-216	
THERMAL RELAXATION PROCESSES AND STABILITY IN POLED ELECTRO-OPTIC POLYMERS Case Western Reserve University	Singer Kenneth	N 36 10/03/92 \$320,233	LEE 92-NC-217	
1992 GORDON RESEARCH CONFERENCE ON PHYSICAL METALLURGY "PROCESSING, MICROSTRUCTURE AND FRACTURE" Gordon Research Conferences Inc	Ritchie Robert	N 12 12/03/92 \$5,000	ROSENSTEIN 92-NC-218	
1992 GORDON RESEARCH CONFERENCE ON OPTICAL PHENOMENA IN GLASS Gordon Research Conferences Inc	deber Marvin	N 12 12/03/92 \$1,500	D ERSTFELD 92-NC-219	
ACOUSTIC WAVE STIMULATION OF CHEMICAL REACTIONS Pennsylvania State University	Agrawal Dinesh	N 24 16/03/92 \$153,442	HEDBERG 92-NC-220	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PHYSICAL-CHEMICAL STUDIES ON POLYMER COMPOSITIONS Carnegie-Mellon University	Jerry	N 24 13/03/92 \$200,000	LEE 92-NC-221	
LIQUID CRYSTAL MATERIALS FOR LASER BEAM STEERING Hughes Aircraft Co	du	N 36 15/03/92 \$255,024	LEE 92-NC-222	
DEVELOPMENT TRANSITION OF SOLID-STATE DYE LASER AND OPTICAL STORAGE MATERIALS European Office of Aerospace R&D	Dymek	N 12 18/03/92 \$20,000	A LEE 92-NC-223	\$20,000 01/05/92 \$20,000
MULTILAYER CERAMIC COMPOSITE FORMATION BY ELECTROPHORETIC DEPOSITION Technion-Israel Inst of Technology	Gal-Or	N 36 23/03/92 \$200,000	BURGGRAF 92-NC-224	
(FY91 EPSCOR) THEORETICAL CHEMICAL DYNAMICS STUDIES OF HIGH ENERGY DENSITY MATERIALS Oklahoma State University	Thompson	N 36 23/03/92 \$150,054	BURGGRAF 92-NC-225	
CRITICAL ISSUES IN THE DEVELOPMENT OF HIGH TEMPERATURE STRUCTURAL MATERIALS United Engineering Trustees Inc	Stoloff	N 12 24/03/92 \$5,000	ROSENSTEIN 92-NC-226	
SUSPENSION RHEOLOGY IN SIMULTANEOUS ELECTRIC AND MAGNETIC FIELDS Clarkson University	Nunge	N 36 20/03/92 \$380,570	D ERSTFELD 92-NC-227	
CHEMICAL PROCESSING OF CERAMICS Pennsylvania State University	Grown	N 36 26/03/92 \$379,036	D BURGGRAF 92-NC-228	
A UNIFIED MODEL OF PARTICLE INTERACTION FOR ION-BEAM METALLURGY Univ of Hawaii	Chang	N 36 30/03/92 \$290,095	ROSENSTEIN 92-NC-229	

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INSTITUTION

ORGANIC SUPERCONDUCTORS: A THEORETICALLY DRIVEN SYNTHESIS PROGRAM

Univ of Florida

Reynolds

John

INVESTIGATOR

MICROSTRUCTURE AND MACROSCOPIC BEHAVIOR OF RANDOM HETEROGENEOUS
MATERIALS
Princeton University

Torquato

Salvatore

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Y 08 30/03/92 \$19,070	LEE 92-NC-230	
N 36 30/03/92 \$264,121	D BURGGRAF 92-NC-231	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
OPTICAL COMPUTING SUBSYSTEMS Intelligence, Inc.	Goodman Joseph	N 36 02/01/92 \$400,067	A CRAIG 92-NE-175	\$400,000 15/06/92 \$1,890,638
THEORY OF ATOMIC EXCITATION AND IONIZATION BY ULTRASHORT LASER PULSES Univ of Oregon	Birardeau Marvin	N 36 10/01/92 \$340,211	KELLEY 32-NE-176	
SCATTERING OF HCO AND H(+) BY ATMOSPHERIC MOLECULES Univ of Connecticut	Pollack Edward	N 36 13/01/92 \$235,438	KELLEY 92-NE-177	
INVERSION PROBLEMS IN PHOTON AND PHOTOELECTRON STATISTICS Alabama A&M University	Lee C	N 36 13/01/92 \$356,859	SCHLOSSER 92-NE-178	
LASER PROBLEMS OF CROSS SECTIONS FOR IONIZATION OF EXCITED STATES AND MOLECULAR DISSOCIATION BY ELECTRON IMPACT California Institute of Technology	McCoy Vincent	N 36 14/01/92 \$474,383	KELLEY 92-NE-179	
(AF)2-017) ERNIUM DOPED SILICON STRUCTURE FOR LED APPLICATION Physical Optics Corporation	Manasson Vladimir	N 06 17/01/92 \$50,886	POMRENKE 92-NE-180	
(SBIR) DEVELOPMENT OF DOPING TECHNIQUES FOR SiGe Imcore Corporation	UP Henry Liu Gary S. Towde	N 06 21/01/92 \$49,341	POMRENKE 92-NE-181	
(SBIR) RARE EARTH DOPED III-V SEMICONDUCTOR FOR OPTOELECTRONICS Astralux	Qiu Chang	N 06 21/01/92 \$50,000	POMRENKE 92-NE-182	
(SBIR) NOVEL ORGANOLITHIUM SOURCE REAGENTS FOR MOVCD OF ERBRUM CONTAINING ALLOYS Advanced Technology Materials Inc.	Gordon Douglas	N 06 21/01/92 \$50,000	POMRENKE 92-NE-183	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(CSIR) THERMALLY STABLE ERBIUM-DOPED ALUMAS LASERS BY MOCVD Boire Corporation	Greenwald Anton	N 06 21/01/92 \$65,594	POMRENKE 92-NE-184	\$49,995 01/07/92 \$49,995
(SBIR) RARE EARTH DOPED III-V SEMICONDUCTORS FOR OPTOELECTRONICS Microtronics Associates, Inc.	Francombe M	N 06 21/01/92 \$49,995	POMRENKE 92-NE-185	\$49,995 01/07/92 \$49,995
(SBIR) GROWTH OF SINGLE-CRYSTAL BORON PHOSPHIDE BY LOW-PRESSURE CHEMICAL VAPOR DEPOSITION Boire Corporation	Vernon Stanley	N 06 21/01/92 \$49,324	POMRENKE 92-NE-186	
(SBIR) SYNTHESIS OF BORON SINGLE CRYSTAL WIDE BANDGAP SEMICONDUCTOR Advanced Fuel Research Inc.	LYNDS Lahmer	N 06 21/01/92 \$58,065	POMRENKE 92-NE-187	
(SBIR) EPITAXIAL GROWTH OF CUBIC BORON NITRIDE AND OTHER BORON CONTAINING SEMICONDUCTORS Schmidt Instruments	Jamison Keith	N 06 21/01/92 \$49,900	POMRENKE 92-NE-188	
(SBIR) ATOMICS LAYER EPITAXY OF BORON NITRIDE OPA Optics Inc	Khan M. Asif	N 06 21/01/92 \$49,397	POMRENKE 92-NE-189	\$49,997 01/07/92 \$49,997
(SBIR) SYNTHESIS AND CHARACTERIZATION OF LARGE-AREA, SINGLE-CRYSTAL BORON NITRIDE Astralux	Jiu C. H	N 06 21/01/92 \$50,000	POMRENKE 92-NE-190	
(SBIR) A DIGITAL SAMPLING TECHNIQUE FOR IMPROVED STABILITY OF HYDROGEN MASERS SPA, Inc.	Golding William	N 06 22/01/92 \$49,670	KELLEY 92-NE-191	
HYDROGEN STATES OF H2 & D2 IN ELECTRIC FIELDS JRI International	Kachru Ravinder	N 36 22/01/92 \$484,362	KELLEY 92-NE-192	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBR) ADVANCED MICROWAVE FREQUENCY SOURCES AND FILTERS BASED ON SUPERCONDUCTING PHOTONIC BAND GAP (PBG) STRUCTURES Prislan Technologies	Quane	N 06 22/01/92 \$56,000	KELLEY 92-NE-193	\$56,887 15/05/92 \$56,887
PULSED MICROWAVE BREAKDOWN OF SOLID DIELECTRIC/GAS INTERFACES Texas Tech University	Kristiansen	R 12 24/01/92 \$56,887	A BARKER 92-NE-194	\$56,887 15/05/92 \$56,887
MERGED BEAM STUDIES OF LASER STIMULATED RADIATIVE RECOMBINATION Univ of Western Ontario	Mitchell	N 12 29/01/92 \$45,603	A KELLEY 92-NE-195	\$45,603 01/05/92 \$45,603
STUDIES OF PHOTOREFRACTIVE MODE CONVERSION FOR FAULT-TOLERANT SOURCE-FIBER COUPLING Rockwell International, Science Center	Chlou	N 36 29/01/92 \$699,371	CRAIG 92-NE-196	
TOPICAL MEETING ON BROADBAND ANALOG AND DIGITAL OPTOELECTRONICS Inst. of Electrical & Electronics Engrg	Wangemann	N 12 29/01/92 \$10,000	A SCHLOSSER 92-NE-197	\$10,000 01/05/92 \$10,000
SPECTROSCOPY OF RARE EARTH-DOPED III-V SEMICONDUCTORS Univ of Illinois	Eden	N 12 29/01/92 \$30,000	POMRENKE 92-NE-198	
HIGH POWER, HIGH FREQUENCY RADIATION FROM BEAM-PLASMA INTERACTIONS Univ of California, Irvine	Benford	R 12 30/01/92 \$100,000	A BARKER 92-NE-199	\$100,000 01/05/92 \$100,000
FABRICATION AND CHARACTERIZATION OF ISOTROPIC OXIDE SUPERCONDUCTOR THIN FILMS FOR DEVICE APPLICATIONS Carnegie-Mellon University	McHenry	N 24 31/01/92 \$40,000	A WEINSTOCK 92-NE-200	\$40,000 01/07/92 \$40,000
INVESTIGATIONS OF THE BUFFER ZONE IN RAILGUN PLASMA ARMATURES Air Force Armament Laboratory	Heddings	N 06 03/02/92 \$75,000	A BARKER 92-NE-201	\$75,000 01/02/92 \$75,000

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REF/MEG WORKSHOP Vanderbilt University	Waksow John	N 06 03/02/92 \$18,000	A WEINSTOCK 92-NE-202	\$18,000 02/03/92 \$18,000
1 AND 2-BODY AMPLITUDES IN ATOMIC PHYSICS Temple University	Larsen Sigurd	N 36 04/02/92 \$244,335	KELLEY 92-NE-203	
COMPOSITE MATERIAL STUDIES FOR LOW TEMPERATURE THERMIONIC EMISSION Stanford University	Gates, Jr Clayton	N 12 05/02/92 \$50,000	A BARKER 92-NE-204	\$50,000 01/06/92 \$50,000
PHOTON-COUNTING SPATIAL LIGHT MODULATOR TECHNOLOGY DEVELOPMENT Rockwell International	Holmes Richard	N 24 05/02/92 \$349,240	CRAIG 92-NE-205	
ADVANCE SOLID-STATE LASER WITH < 20 FEMTOSECOND PULSE DURATION Washington State University	Kaptein Henry	N 12 10/02/92 \$24,686	A SCHLOSSER 92-NE-206	\$24,636 01/03/92 \$24,636
TIME-ADVANCE ALGORITHMS BASED ON HAMILTON'S PRINCIPLE Dartmouth College	Lewis H	N 24 13/02/92 \$115,119	BARKER 92-NE-207	
WORKSHOP ON EMERGING TECHNOLOGIES FOR IN-SITU PROCESSING Massachusetts Institute of Technology	Melnjailis John	N 06 13/02/92 \$10,000	A SCHLOSSER 92-NE-208	\$10,000 01/05/92 \$10,000
GATE CURRENTS AND NEW REGIMES OF OPERATION OF COMPLEMENTARY COMPOUND SEMICONDUCTOR HETEROSTRUCTURE FIELD EFFECT TRANSISTORS Univ of Virginia	Shur Michael	N 24 13/02/92 \$120,000	WITT 92-NE-209	
COLLISIONAL DAMPING AND TRANSPORT PHENOMENA IN MICROSTRUCTURES Hunter College - CUNY	Gumbs Godfrey	N 36 13/02/92 \$235,143	D POMRENKE 92-NE-210	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TERAHERTZ/SUBPICONSECOND GENERATION & DETECTION WITH THZ ARTIFICIAL NONLINEAR DIELECTRICS Univ of California, Santa Barbara	Redwell Mark	R 36 13/02/92 \$378,604	A SCHLOSSBER 92-NE-211	\$194,588 01/07/89 \$506,755
OPTICALLY POWERED, OPTOELECTRONIC SPATIAL LIGHT MODULATORS Princeton University	Forrest Stephen	N 36 14/02/92 \$485,813	CRAIG 92-NE-212	
HALF-COLLISIONS WITH INTENSE SUBPICONSECOND LASER PULSES Univ of Maryland	Hill, III Wendell	N 36 19/02/92 \$459,200	KELLEY 92-NE-213	
PHOTONIC TECHNOLOGY DEVELOPMENT FOR DENSELY-INTERCONNECTED NEURAL NETWORKS Univ of Southern California	Jenkins S	N 36 19/02/92 \$1,177,346	CRAIG 92-NE-214	
EXCITATION OF NUCLEI BY ANTIPROTON ANNIHILATION AT REST Pennsylvania State University	Smith Gerald	N 24 19/02/92 \$90,000	A KELLEY 92-NE-215	\$45,000 15/06/92 \$90,000
(AF92-019) ATOMIC FOUNTAIN CLOCK USING LASER TRAPPED AND COOLED CS ATOMS Rincon Research Corp.	Parker Mike	N 06 20/02/92 \$49,748	A KELLEY 92-NE-216	\$49,748 01/06/92 \$49,748
(AF92-019) ADVANCED FREQUENCY STANDARD Laser Science, Inc.	Nordstrom Robert	N 06 20/02/92 \$49,525	KELLEY 92-NE-217	
(AF92-019) COMPACT ACTIVE HYDROGEN MASER Physical Sciences Inc	Opie David	N 06 20/02/92 \$49,995	A KELLEY 92-NE-218	\$49,995 01/06/92 \$49,995
(AF92-017) LOW TEMPERATURE EPITAXIAL GROWTH OF ERBIUM DOPED SILICON AND SILICON GERMANIUM ALLOYS Vermont Plasma Processing	Varhue Walter	N 06 20/02/92 \$50,000	POMRENKE 92-NE-219	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(AF92-017) JET VAPOR DEPOSITION OF RARE EARTH DOPED SI AND SIC LAYERS Jet Process Corporation	Halpern Gret	N 06 20/02/92 \$50,000	POMRENKE 92-NE-220	
(AF92-017) RARE EARTH DOPED III-V AND SILICON BASED SEMICONDUCTORS FOR OPTOELECTRONICS Electo Clean Corp.	Lin G	N 06 20/02/92 \$50,000	POMRENKE 92-NE-221	
(FY92-013) SYNTHESIS OF BORON BASED WIDE BAND GAP SEMICONDUCTOR Linares Management Assoc, Inc. (LMAINC)	Linares Robert	N 06 20/02/92 \$50,006	POMRENKE 92-NE-222	
(FY92-013) BORON PHOSPHIDE SINGLE CRYSTALS GROWN USING A NOVEL LOW-COST HIGH-PURITY BORON SOURCE SOLARWATT	Mowles Thomas	N 06 20/02/92 \$50,000	POMRENKE 92-NE-223	
(AF92-013) DEVELOPMENT OF BORON BASED WIDE BANDGAP SEMICONDUCTORS Structured Materials Industries (SMI)	Kim S	N 06 20/02/92 \$49,960	POMRENKE 92-NE-224	
(FY92-018) ELECTROCRYSTALLIZATION AS A SYNTHETIC METHOD FOR SINGLE CRYSTAL BP SEMICONDUCTORS TDA Research, Inc.	Cook Ronald	N 06 20/02/92 \$57,621	POMRENKE 92-NE-225	
(FY92-018) BORON PHOSPHIDE SEMICONDUCTOR DEVICES Radiation Monitoring Devices, Inc.	Squillante Michael	N 06 21/02/92 \$55,892	POMRENKE 92-NE-226	
NUCLEAR AND PLASMA PHYSICS WITH ANTI-PROTONS AT SAIVA STAR Pennsylvania State University	Smith Gerald	N 12 21/02/92 \$65,000	A KELLEY 92-NE-227	\$65,000 01/06/92 \$65,000
RARE-EARTH4-ALLOYED II-VI SEMICONDUCTORS; SYNTHESIS & CHARACTERIZATION BY PERTURBED ANGULAR CORRELATION & MOSSBAUER-EFFECT SPECTROSCOPY Pennsylvania State University	Blanco Patricia	N 36 25/02/92 \$498,599	POMRENKE 92-NE-228	

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TITLE (CONT.) INSTITUTION				
SELECTIVE PROCESSING TECHNIQUES FOR ELECTRONIC OPTO-ELECTRONIC APPLICATIONS: QUANTUM-WELL DEVICES AND INTEGRATED OPTIC CIRCUITS Columbia University	Jsgood Richard	2 36 25/02/92 \$1,507,404	A SCHLOSSER 92-NE-229	\$60,000 15/06/92 \$1,507,404
THEORETICAL STUDIES RELATING TO SUPERCONDUCTIVITY IN DOPED FULLERENES California State University	Jishi Radi	N 24 25/02/92 \$88,488	A WEINSTOCK 92-NE-230	\$43,633 01/07/92 \$88,488
FORTY-FIFTH ANNUAL GASEOUS ELECTRONICS CONFERENCE ITE Laboratories	Vicharelli Pablo	N 12 25/02/92 \$8,000	KELLEY 92-NE-231	
A STUDY OF EFFICIENT PLASMA SOURCES Univ of Tennessee	Kader Mark	N 36 25/02/92 \$445,378	BARKER 92-NE-232	
(AF92-019) QUASI MONOLITHIC SINGLE FREQUENCY TIS RING LASER Synus Laser Corporation	Deasolell Raymond	N 06 25/02/92 \$4,165	KELLEY 92-NE-233	
PRECISE SPECTROSCOPY IN OPTICAL DIPOLE FORCE ATOM TRAPS Univ of Texas	Heinzen Daniel	N 36 02/03/92 \$225,000	A KELLEY 92-NE-234	
A STUDY OF OPTICALLY INTERCONNECTED MULTIPROCESSORS Louisiana Tech University	Guo Licheng	N 24 02/03/92 \$78,378	CRAIG 92-NE-235	
POLARIZATION CHARACTERIZATION OF SPATIAL LIGHT MODULATORS BY IMAGING POLARIMETRY Univ of Alabama	Chipman Russell	N 12 04/03/92 \$25,643	CRAIG 92-NE-236	
HYDROGEN MASER TECHNOLOGIES RESEARCH Physical Sciences Inc	Opie David	N 36 04/03/92 \$390,100	KELLEY 92-NE-237	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE CREATION OF A JSEP ACTIVITY IN MILLIMETER WAVE ELECTRONICS				
Univ of California, Los Angeles	T. Loth	N 36 05/03/92 \$1,375,402	A WITT 92-NE-238	\$141,313 01/07/92 \$141,313
INVESTIGATIONS OF THE OPTICAL & ELECTRONIC PROPERTIES OF CRYSTALLINE ORGANIC SEMICONDUCTORS GROWN BY MOLECULAR BEAM DEPOSITION				
Princeton University	Forrest	N 36 06/03/92 \$758,000	POMRENKE 92-NE-239	
SWEPT CARRIER TIME-DOMAIN OPTICAL MEMORY				
Univ of Oregon	Mossberg	N 36 11/03/92 \$355,924	CRAIG 92-NE-240	
THIN FILM MULTILAYER HIGH TC SUPERCONDUCTOR STRUCTURES				
Florida International University	Larkins	N 12 12/03/92 \$110,799	A WEINSTOCK 92-NE-241	\$78,366 01/08/92 \$230,640
SIMPLIFIED ULTRA-HIGH RESOLUTION OPTIC FOR SOFT-X-RAY IMAGING				
Univ of Central Florida	Silvest	N 12 12/03/92 \$19,659	A SCHLOSSER 92-NE-242	\$19,569 01/07/92 \$19,569
ARCHITECTURE STUDIES IN PARALLEL OPTOELECTRONIC COMPUTING				
Univ of California, La Jolla	Eisner	N 26 12/03/92 \$500,048	CRAIG 92-NE-243	
TERMOLECULAR ASSOCIATION AND ELECTRON-EXCITED ATOM COLLISIONS				
Georgia Tech Research Corporation	Flannery	R 12 16/03/92 \$133,351	A KELLEY 92-NE-244	\$133,051 01/07/92 \$133,051
SEMICONDUCTOR MATERIALS: QUANTUM WELL MODULATORS				
Hughes Aircraft Corp Research Labs	Hasenberg	N 36 23/03/92 \$447,046	CRAIG 92-NE-245	
PERFORMANCE AND REALIZABILITY OF OPTICAL SPECTRAL PROCESSING BASED LOGIC PRIMITIVES AND COMPUTING ARCHITECTURES				
Univ of Colorado	Sauer	R 19 23/03/92 \$57,745	CRAIG 92-NE-246	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
APPLICATION FOR ERROR DETECTING/CORRECTING CODES IN FAULT-TOLERANT LOGIC DESIGN FOR VLSI North Carolina A&T State University	Lala	N 24 23/03/92 \$190,712	CRAIG 92-NE-247	
LOW TEMPERATURE EPITAXIAL GROWTH OF RARE EARTH DOPED SILICON AND SILICON GERMANIUM ALLOYS Univ of Vermont	Varnue	N 36 24/03/92 \$34,000	POMRENKE 92-NE-248	
ADVANCED MICROWAVE FREQUENCY SOURCES AND FILTERS BASED ON SUPERCONDUCTING PHOTONIC BAND GAP (PBG) STRUCTURES Pristan Technologies	Crum	N 06 25/03/92 \$55,000	A WEINSTOCK 92-NE-249	\$56,000 01/07/92 \$56,000
ADVANCED HTS S-M-S DEVICES Conductus, Inc.	Simon	N 06 25/03/92 \$49,868	A WEINSTOCK 92-NE-250	\$49,868 01/07/92 \$49,868
SILICON GERMANIUM CARBON HETEROEPITAXIAL GROWTH ON SILICON Arizona State University	Mayer	N 12 30/03/92 \$70,000	WITT 92-NE-251	
PHOTOTHERMAL INVESTIGATION OF GASE-BASED MATERIALS AND QUANTUM- WELL STRUCTURES Univ of Arkansas	Gupta	N 36 31/03/92 \$48,839	POMRENKE 92-NE-252	
(EPSCOR) EXCITONIC NONLINEAR OPTICAL PROPERTIES IN QUANTUM WIRES AND PRISMATIC QUANTUM DOTS Univ of Alabama	Madarasz	N 36 31/03/92 \$149,962	POMRENKE 92-NE-253	
REPAIR AND UPGRADING OF A MOLECULAR JAM EPITAXY GROWTH REACTOR California Institute of Technology	Yariv	N 12 31/03/92 \$12,000	SCHLOSSBER 92-NE-254	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
YRC EVALUATION CONTRACT FOR US JAPAN PROGRAM National Science Foundation	Mahoney Thomas	N 12 08/01/92 \$300,000	A CAVENDER 92-NI-004	\$300,000 01/03/92 \$300,000
ALL HIGH-TC SUPERCONDUCTOR-INSULATOR-SUPERCONDUCTOR STRUCTURES Massachusetts Institute of Technology	Tedrow Paul	R 12 13/01/92 \$48,612	A BOLAND 92-NI-005	\$32,408 15/02/92 \$48,612
MAGNETIC FIELD STUDIES OF MICROWAVE PROPERTIES OF SUPERCONDUCTING HIGH TC MATERIALS Massachusetts Institute of Technology	Dresselhaus Gene	R 12 13/01/92 \$41,692	A BOLAND 92-NI-006	\$27,792 01/02/92 \$41,692
WIDEBAND ANTENNA ARRAYS-AN ARRAY OF SLEEVE MONOPOLES OVER A GROUNDPLANE Univ of New Hampshire	Sivaoprasad Kondagunta	R 12 25/02/92 \$41,116	A BOLAND 92-NI-008	\$13,112 16/07/92 \$41,116
SUBSURFACE IN-SITU REMEDIATION OF HAZARDOUS CONTAMINANTS Washington State University	Mahalingam P	N 12 28/02/92 \$128,610	A BOLAND 92-NI-009	
ADAPTIVE ESTIMATION AND APPROXIMATION OF CONTINUOUSLY VARYING SPECTRAL DENSITY FUNCTIONS WITH APPLICATION TO AIRBORNE RADAR Texas Tech University	Erol Care	N 12 03/03/92 \$114,360	A BOLAND 92-NI-010	\$12,460 01/09/92 \$114,360
A NOVEL METHOD FOR THE PRODUCTION OF CONDUCTIVE LAYERS IN 25GEP2 Univ of Cincinnati	Kosel Peter	N 12 24/03/92 \$100,000	A BOLAND 92-NI-012	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STOCHASTIC MODELS OF ATTENTION AND SEARCH Johns Hopkins University	Yantis Steven	N 36 02/01/92 \$129,615	A FREGLY 92-NL-127	\$43,851 01/02/92 \$129,615
SUBLETHAL TOXICANT AFFECTS ON CULTURED ADRENAL CELL FUNCTION AND M ORPHOLOGY Weharry Medical College	Mrotek James	R 36 02/01/92 \$649,342	CORNETTE 92-NL-128	
A STUDY OF THE POLAR CAP POTENTIAL AND ITS APPLICATION TO THE MAGN ETOSPHERIC SPECIFICATION AND FORECAST MODEL Rice University	Freeman John	N 36 10/01/92 \$95,591	RADOSKI 92-NL-130	
GRADUATE STUDIES OF IONOSPHERIC COMPOSITION AND DYNAMICS UTILIZING DATA FROM DEFENSE METEOROLOGICAL SATELLITE PROGRAM Univ of Texas	Heelis Roderick	N 36 14/01/92 \$149,358	STOBIE 92-NL-131	
ERROR DETECTION AND CORRECTION IN COMPLEX ENVIRONMENTS Univ of Illinois	Bonchin Emanuel	N 36 14/01/92 \$494,134	TANGNEY 92-NL-132	
NEOSTRIATAL NEURONAL ACTIVITY AND BEHAVIOR Lake Forest University	Goodward Donald	R 12 16/01/92 \$136,856	A HADDAD 92-NL-133	\$125,000 15/05/92 \$125,000
IMAGING THE EARTH'S INTERIOR - DETAILED STUDIES OF THE EARTH'S SEI SMIC STRUCTURE WITH NEW GLOBAL AND PORTABLE ARRAYS National Science Foundation	Phinney Robert	N 12 22/01/92 \$7,000,000	A STOBIE 92-NL-135	\$5,700,000 01/10/91 \$5,700,000
INTEGRATION OF PICTURES AND DISCOURSE Univ of Wisconsin	Glenberg Arthur	R 49 27/01/92 \$771,309	TANGNEY 92-NL-136	
PSYCHOLOGY OF VISUAL ATTENTION Univ of California, Davis	Rafal Robert	N 60 27/01/92 \$635,742	TANGNEY 92-NL-137	

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LOCALIZING VISUAL FUNCTION IN THE BRAIN Univ of Rochester	Horigan William	N 08 27/01/92 \$19,890	A TANGNEY 92-NL-138	\$19,890 01/06/92 \$19,890
ELECTRIC CHARGE TRANSFER IN ICE PHASE CLOUDS Univ of Nevada	Pitter Richard	N 36 29/01/92 \$298,548	STOBIE 92-NL-139	
FROM ANIMALS TO ANIMATS: SECOND INTERNATIONAL CONFERENCE ON THE SI MULATION OF ADAPTIVE BEHAVIOR Univ of Hawaii	Reitblatt Herbert	N 12 18/02/92 \$109,475	TANGNEY 92-NL-140	
STUDY OF PARAMETRIC INSTABILITIES, SOLITONS, AND CHAOS IN SPACE PL ASMAS Univ of Missouri	Willet Joseph	N 36 24/02/92 \$191,328	RADOSKI 92-NL-141	
PHY91 EPSCORP TRAINING OF STUDENTS IN ATMOSPHERIC RADAR RESEARCH T ECHNIQUES Clemson University	Larson Miguel	N 36 27/02/92 \$191,800	STOBIE 92-NL-142	
RETINAL INJURIES FROM SINGLE AND MULTIPLE PICOSECOND LASER PULSES New England Medical Center Hospital	Pulliafito Carmen	N 36 03/03/92 \$330,000	BERRY 92-NL-143	
MECHANISMS AND DIAGNOSTICS OF ULTRASHORT PULSE LASER OCULAR EFFECT s Massachusetts Institute of Technology	Fujimoto James	N 36 03/03/92 \$300,000	BERRY 92-NL-144	
ULTRASHORT LASER PULSE EFFECTS IN OCULAR AND RELATED MEDIA: LASER- INDUCED SHOCK WAVE PROPAGATION AND RETINAL DAMAGE Massachusetts General Hospital	Deutsch Thomas	N 36 03/03/92 \$270,000	BERRY 92-NL-145	
A HISTOPATHOLOGICAL INVESTIGATION OF THERMAL AND MECHANICAL MECHAN ISMS IN ULTRASHORT PULSE LASER DAMAGE TO THE RETINA United Medical & Dental Sch/Guy's & St.	Marshall John	N 36 04/03/92 \$150,000	BERRY 92-NL-146	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONFERENCE ON MATHEMATICAL GEOPHYSICS, TAYCO, MEXICO				
Univ of California, San Diego	Orcutt	N 06 09/03/92 \$300,000	A STOBIE 92-NL-147	\$30,000 01/04/92 \$30,000
PROTO-ONCOGENE C-FOS EXPRESSION IN BRAINS FOLLOWING +GI INDUCED IS CHEMIA				
Univ of Texas Health Science Ctr	Lee	N 36 11/03/92 \$364,231	HADDAD 92-NL-148	
ELASTIC AND ANELASTIC STRUCTURE BENEATH EURASIA				
Harvard University	Ekstrom	N 24 12/03/92 \$300,742	A STOBIE 92-NL-149	\$144,945 01/07/92 \$297,503
CHARACTERIZATION OF BROADBAND REGIONAL DISTANCE SEISMOGRAMS IN EURA SIA AND OTHER REGIONS OF POTENTIAL UNDERGROUND TESTING				
Univ of Arizona	Terry	N 24 12/03/92 \$123,549	A STOBIE 92-NL-150	\$61,775 01/07/92 \$123,549
BASIC RESEARCH IN NUCLEAR TEST MONITORING				
Massachusetts Institute of Technology	Toksz	N 24 13/03/92 \$233,080	A STOBIE 92-NL-151	\$110,130 01/07/92 \$228,480
ANGULAR CONTRAST AND SOLAR IRRADIANCE VARIATIONS				
Lockheed Missiles & Space Co Inc	Topka	N 24 19/03/92 \$200,000	RADOSKI 92-NL-152	
AUDIOVISUAL INFORMATION FOR SPATIAL ORIENTATION: THE PERCEPTION OF HEADING				
Univ of California, Riverside	Andersen	N 36 24/03/92 \$507,241	TANGNEY 92-NL-153	
PSYCHOPHYSICS OF COMPLEX AUDITORY AND SPEECH STIMULI				
State University of New York	Pastore	N 36 24/03/92 \$233,722	TANGNEY 92-NL-154	
AUDITORY SPECTRO-TEMPORAL PATTERN ANALYSIS				
Univ of North Carolina	Hall	N 36 24/03/92 \$367,012	TANGNEY 92-NL-155	

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SYSTEM PROGRAM DATA MANAGEMENT National Center for Atmospheric Research	Dicks	N 12 25/03/92 \$50,000	STOBIE 92-NL-156	
MEMORY FUNCTIONS OF HUMAN SENSORY CORTEX Yale University	Williamson	N 36 25/03/92 \$623,048	TANGNEY 92-NL-157	
STUDY OF SCN NEUROCHEMISTRY USING IN VIVO BRAIN MICRODIALYSIS IN THE CONSCIOUS BRAIN: CORRELATION WITH ACTIVITY RHYTHMS Kent State University	Davies	N 36 26/03/92 \$384,178	HADDAD 92-NL-158	
INTRACELLULAR PHYSIOLOGY OF THE RAT SUPRACHIASMATIC NUCLEUS: ELECTRICAL PROPERTIES, NEUROTRANSMISSION, & EFFECTS OF NEUROMODULATORS Colorado State University	E. Edwards	N 12 30/03/92 \$168,480	A HADDAD 92-NL-159	\$168,480 01/07/92 \$168,480

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SOME PROBLEMS IN NONPARAMETRICS AND SEQUENTIAL ANALYSIS Univ of Kentucky	Govindarajula Zakkula	N 36 02/01/92 \$121,158	SJOGREN 92-NM-193	\$141,188 01/06/92 \$141,188
(FY91 AASERT) PLAN DEBUGGING USING APPROXIMATE DOMAIN THEORIES Stanford University	Nilsson	N 36 06/01/92 \$141,188	A WAKSHAM 92-NM-194	\$141,188 01/06/92 \$141,188
(AASERT) ADVANCED PROCESS CONTROL ASSET Univ of Cincinnati	Garrett Patrick	N 36 06/01/92 \$165,973	WAKSHAM 92-NM-195	
(AASERT) HYBRID SYSTEM FOR MONITORING HASP STRUCTURES Tennessee State University	Boduzzaman Mohammad	N 36 06/01/92 \$402,278	WAKSHAM 92-NM-196	
(AASERT) DIELECTRIC DISK RADIATING ELEMENTS - AASERT SUPPLEMENT Univ of Mississippi	Kajfez Darko	N 36 06/01/92 \$182,833	NACHMAN 92-NM-197	
(AASERT) ROBUST SPREAD SPECTRUM COMMUNICATIONS SYSTEM TECHNOLOGY Rensselaer Polytechnic Institute	Saulnier Gary	N 36 06/01/92 \$264,357	SJOGREN 92-NM-198	
(AASERT) NONLINEAR PROCESSING FOR IMPROVED PERFORMANCE IN SPREAD SPECTRUM RECEIVERS Illinois Institute of Technology	Ucci Donald	N 36 06/01/92 \$305,438	SUDDARTH 92-NM-199	
MATHEMATICAL ANALYSIS OF CAVITATION Southern Illinois University	Spector Scott	N 24 14/01/92 \$38,828	NACHMAN 92-NM-200	
COMPUTATIONAL STUDIES OF WAVE COLLAPSE, LONG-LIVING SINGULARITIES, AND DISSIPATIVE STRUCTURES IN NONLINEAR MEDIA Auburn University	Shvets Vadim	N 36 14/01/92 \$383,426	NACHMAN 92-NM-201	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STATISTICAL THEORY OF LIFE TESTING AND RELIABILITY WITH APPLICATION TO IMPROVING ENGINEERING SYSTEMS Univ of Wisconsin	Johnson Richard	N 36 14/01/92 \$116,487	SJOGREN 92-NM-202	
STATISTICALLY ROBUST METHODS FOR REMOTE SENSING AND SIGNAL PROCESSING University of Texas at Dallas	Ammann Larry	N 36 14/01/92 \$236,440	SJOGREN 92-NM-203	
THE STABILITY AND DYNAMICS OF ELASTIC STRUCTURES, FLUID FLOWS LASERS AND OPTICAL WAVEGUIDES Northwestern University	Reiss E.	N 36 14/01/92 \$439,841	NACHMAN 92-NM-204	
CONTROL OF NONLINEAR DISTRIBUTED AEROSPACE SYSTEMS VIA NEURAL NETWORKS Univ of California, Los Angeles	Wang P.K.-C.	N 36 14/01/92 \$304,161	JACOBS 92-NM-205	
MULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY North Carolina State University	Shearer Michael	N 36 14/01/92 \$141,963	NACHMAN 92-NM-206	
PARALLEL ITERATION METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS Univ of California, Riverside	de Pillis John	N 24 14/01/92 \$15,028	JACOBS 92-NM-207	
NONLINEAR CONTROL OF MISSILES McDonnell Aircraft Company	Wise Kevin	N 12 14/01/92 \$374,323	JACOBS 92-NM-208	
DEVELOPMENT OF PICO SECOND SPECTROSCOPY Northeastern University	Vittoria Carmine	N 08 16/01/92 \$50,000	A NACHMAN 92-NM-209	\$50,000 01/02/92 \$50,000
RAPID SOLUTION OF PARABOLIC PARTIAL DIFFERENTIAL EQUATIONS ON SIMPLE DOMAINS: THE EVOLVE PROJECT Univ of Alabama	Ederson James	N 24 27/01/92 \$83,256	JACOBS 92-NM-210	

TITLE
TITLE (CONT.)
INSTITUTION

INVESTIGATOR

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AMOUNT

STATUS
PROGRAM MANAGER
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TOT AMT

MULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY

Duke University

Schoeffer

David

N 36
27/01/92
\$679,886

NACHMAN
92-NM-211

APPLICATION OF SYMMETRY ANALYSIS TO DYNAMICAL SYSTEMS

Shaw University

Rosenhaus

Vladimir

N 36
27/01/92
\$166,444

A
NACHMAN
92-NM-212

\$51,870
01/06/92
\$166,444

CONTROL THEORY AND ITS APPLICATIONS

Univ of Minnesota

Miller, Jr.

Willard

N 09
27/01/92
\$90,000

JACOBS
92-NM-213

ALGORITHMS, COMPLEXITY AND IMPLEMENTATIONS FOR STRUCTURED OPTIMIZATION

Rutgers - The State University

Grigoriadis

Michael

N 36
27/01/92
\$468,425

NACHMAN
92-NM-214

RISK EVALUATION OF SOFTWARE DESIGN METHODS

Univ of Maryland

Zelkowitz

Marvin

N 36
23/01/92
\$156,154

LUPO
92-NM-215

COMPUTATIONAL SINGULAR PERTURBATION METHODOLOGY FOR OPTIMAL CONTROL PROBLEMS

Princeton University

Wease

Kenneth

N 36
28/01/92
\$307,120

JACOBS
92-NM-216

A SYMBOLIC APPROACH TO APPROXIMATE REASONING

Florida State University

Schwartz

Daniel

N 36
28/01/92
\$235,619

WAKSMAN
92-NM-217

INTEGRATED APPROACHES TO PARALLELISM IN OPTIMIZATION AND THE SOLUTION OF INVERSE PROBLEMS

Rice University

Dennis, Jr.

John

N 06
30/01/92
\$115,000

A
GLASSMAN
92-NM-218

\$115,000
01/04/92
\$115,000

ROBUST ANALYSIS AND DESIGN OF MULTIVARIABLE FEEDBACK SYSTEMS

Univ of Minnesota

Tannenbaum

Allen

N 36
12/02/92
\$252,198

JACOBS
92-NM-219

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FORMAL METHODS FOR DEPENDABLE DISTRIBUTED SOFTWARE Univ of Missouri	McMillin Bruce	N 36 12/02/92 \$285,736	LUP0 92-NM-220	
EFFICIENT MULTIGRID ALGORITHMS FOR MASSIVELY-PARALLEL HYPERCUBE AND HYPERCUBE-LIKE SYSTEMS: DESIGN AND PERFORMANCE ANALYSIS New Jersey Institute of Technology	Sotiriadis Zisvris	N 24 12/02/92 \$137,743	JAC08S 92-NM-221	
OPTIMAL & EFFICIENT ALGORITHMS FOR DYNAMIC MULTIREOLUTIONAL SENSOR/DATA FUSION USING WAVELET TRANSFORMS Bright State University	Hong Lanq	N 12 12/02/92 \$53,893	SJOGREN 92-NM-222	
COMPUTATIONAL ASPECTS OF BOUNDARY CONTROL LAWS & SCANNING CONTROLS Univ of Virginia	Lesiecka I.	N 36 12/02/92 \$389,533	JAC08S 92-NM-223	
TRI-SERVICE WORKSHOP ON FORMAL METHODS IN SOFTWARE Naval Post Graduate School	Jay Robert	N 08 13/02/92 \$20,000	A LUP0 92-NM-224	\$20,000 01/03/92 \$20,000
(C3I) SPECIFICATION AND VERIFICATION OF COMPLEX REAL-TIME SYSTEMS Univ of Maryland	Agarwala Ashok	N 36 14/02/92 \$300,000	LUP0 92-NM-225	
(C3I) DISTRIBUTED SOFTWARE ARCHITECTURE FOR HIGH-PERFORMANCE REAL-TIME APPLICATIONS Univ of Hawaii	Hac Inna	N 36 14/02/92 \$239,837	LUP0 92-NM-226	
(C3I) A PROGRAMMING MODEL FOR FAULT TOLERANCE IN MISSION-CRITICAL DISTRIBUTED SYSTEMS Utah State University	Cannon Scott	N 36 14/02/92 \$99,573	LUP0 92-NM-227	
(C3I) FAULT MANAGEMENT IN ADAPTIVELY SPECIFIED SURVIVABLE REAL-TIME DISTRIBUTED (ASSURED) C3I SYSTEMS Univ of Wyoming	Gantenbein Rex	N 36 14/02/92 \$361,200	LUP0 92-NM-228	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(C31) TIMELINESS & DEPENDABILITY OF DISTRIBUTED REAL TIME SYSTEMS Univ of Illinois	Liu	N 36 14/02/92 \$471,269	LUPD 92-NM-229	
(C31) EXECUTABLE SPECIFICATIONS FOR DISTRIBUTED REAL-TIME SYSTEMS Univ of Washington	Shaw	N 36 14/02/92 \$474,644	LUPD 92-NM-230	
(C31) AUTOMATED ANALYSIS TOOLS TO PREDICT DESIGN DECISIONS Univ of Pittsburgh	Satliff	N 36 14/02/92 \$264,762	LUPD 92-NM-231	
(C31) FAULT-TOLERANT COMMUNICATION IN DISTRIBUTED REAL-TIME SYSTEMS Univ of Massachusetts	Krishna	N 36 14/02/92 \$285,655	LUPD 92-NM-232	
(C31) ADAPTIVE RECONFIGURATION ALGORITHMS FOR REAL-TIME DISTRIBUTED SYSTEMS Univ of Massachusetts	Ganz	N 36 14/02/92 \$529,414	LUPD 92-NM-233	
(C31) RESOURCES ALLOCATION IN AN OBJECT-ORIENTED, DEADLINE-DRIVEN ENVIRONMENT Univ of Texas	Gonzalez	N 36 14/02/92 \$183,948	LUPD 92-NM-234	
(C31) FORMAL METHODS IN CONCURRENT & DISTRIBUTED SYSTEMS Univ of Illinois	Slatko	N 36 14/02/92 \$288,760	LUPD 92-NM-235	
(C31) THE CERTIFICATION TRAIL METHOD FOR FAULT TOLERANT COMPUTING Johns Hopkins University	Masson	N 36 14/02/92 \$423,629	LUPD 92-NM-236	
(C31) OD3S: OBJECT-ORIENTED DEADLINE-DRIVEN DISTRIBUTED SYSTEM North Carolina State University	Agrawal	N 36 14/02/92 \$347,738	LUPD 92-NM-237	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(C31) NEXT-GENERATION, RECONFIGURABLE, TERABIT LIGHTWAVE NETWORKS Univ of California, Davis	Aukherjee	N 36 18/02/92 \$376,170	LUP0 92-NM-238	
(C31) ACTIVE HETEROGENEOUS DATABASES FOR MONITOR AND CONTROL Univ of Illinois	Holifon	N 36 18/02/92 \$536,549	LUP0 92-NM-239	
(C31) ABSTRACT MODELS IN OBJECT-ORIENTED HETEROGENEOUS DISTRIBUTED SYSTEMS: AUTOMATIC DERIVATION APPLICATIONS Princeton University	Malik	N 36 18/02/92 \$552,844	LUP0 92-NM-240	
(C31) SEMANTIC THEORIES AND AUTOMATED TOOLS FOR REAL-TIME AND PROBABILISTIC CONCURRENT SYSTEMS Johns Hopkins University	Zmarico	N 36 18/02/92 \$579,446	LUP0 92-NM-241	
(C31) IMPOSING GLOBAL CONSTRAINTS OVER DISTRIBUTED SYSTEMS: APPLICATION TO LINDA Rutgers, The State Univ. Coll of Enginr	Minsky	N 35 18/02/92 \$586,717	LUP0 92-NM-242	
(C31) ARCHITECTURE AND OPERATING SYSTEM SUPPORT FOR DEPENDABLE DISTRIBUTED SYSTEMS Univ of Massachusetts	Stankovic	N 36 18/02/92 \$715,690	LUP0 92-NM-243	
(C31) FAULT-TOLERANT ROUTING AND AGREEMENT IN UNCERTAIN COMMUNICATION ENVIRONMENTS Univ of Nebraska	Kleckhafer	N 36 18/02/92 \$356,315	LUP0 92-NM-244	
(C31) ANALYTIC MODELING OF TASK SCHEDULING FOR DISTRIBUTED REAL-TIME SYSTEMS Univ of Texas, El Paso	Chang	N 36 18/02/92 \$320,694	LUP0 92-NM-245	
(C31) ENVIRONMENT SUPPORT FOR CONSTRUCTION AND MAINTENANCE OF DISTRIBUTED AND REAL-TIME SOFTWARE Univ of Massachusetts	Wileden	N 36 18/02/92 \$506,060	LUP0 92-NM-246	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(C31) DEPENDABLE REAL-TIME DISTRIBUTED COMPUTING Stanford University	Garcia-Molina Hector	N 36 18/02/92 \$686,668	LUP0 92-NM-247	
(C31) REAL-TIME COMMUNICATION IN DISTRIBUTED ENVIRONMENTS Univ of Florida	Lee Yann-Hang	N 36 18/02/92 \$197,941	LUP0 92-NM-248	
(C31) AN OBJECT ORIENTED APPROACH TO DISTRIBUTED REAL-TIME SYSTEMS Univ of Florida	Yau Stephen	N 36 18/02/92 \$300,059	LUP0 92-NM-249	
(C31) PROBABILISTIC ERROR CHECKERS FOR HETEROGENEOUS DISTRIBUTED SYSTEMS Univ of Southern California	Danzig Peter	N 36 18/02/92 \$413,657	LUP0 92-NM-250	
(C31) FAULT TOLERANCE IN DISTRIBUTED SYSTEMS WITH TIME CONSTRAINTS Rensselaer Polytechnic Institute	Szymanski Polisla	N 36 19/02/92 \$341,998	LUP0 92-NM-251	
(C31) DATA STRUCTURE & CONCURRENCY CONTROL MECHANISM FOR REAL-TIME MAIN MEMORY DISTRIBUTED DATABASE SYSTEMS Univ of Missouri	Kumar Vijay	N 36 19/02/92 \$97,857	LUP0 92-NM-252	
(C31) DYNAMIC DATA REPLICATION IN DISTRIBUTED DATABASES Univ of Illinois	Hofson Duri	N 36 19/02/92 \$510,291	LUP0 92-NM-253	
(C31) VERIFICATION & DEVELOPMENT OF REAL-TIME PROGRAMS Cornell University	Bloom Gary	N 36 19/02/92 \$745,165	LUP0 92-NM-254	
(C31) AUTOMATIC METHODS AND TOOLS FOR THE VERIFICATION OF REAL-TIME SYSTEMS Cornell University	Henzinger Thomas	N 36 19/02/92 \$441,741	LUP0 92-NM-255	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CC310 INVESTIGATION OF FORMAL REQUIREMENTS LANGUAGES FOR EMBEDDED REAL-TIME SYSTEMS Univ of Texas	Emerson C. Allen	N 36 19/02/92 \$174,731	LUP0 92-NM-256	
CC311 FORMAL OBJECT-ORIENTED FRAMEWORK FOR STRUCTURING, ANALYZING AND CONFIGURING DISTRIBUTED APPLICATIONS George Mason University	Jafodia Jushil	N 36 19/02/92 \$448,634	LUP0 92-NM-257	
CC312 REAL-TIME SCHEDULING FOR REQUIREMENTS SPECIFICATION AND TESTING IN C3 SYSTEM ACQUISITION Naval Post Graduate School	Luqi	N 36 19/02/92 \$381,240	LUP0 92-NM-258	
CC313 SPECIFICATION, DESIGN AND SCHEDULING OF REAL-TIME PROCESSES IN FAULT-TOLERANT DISTRIBUTED SYSTEMS Univ of Texas	Kavi Krishna	N 36 19/02/92 \$290,075	LUP0 92-NM-259	
CC314 FAULT-TOLERANT GUARANTEES OF HARD REAL-TIME MESSAGE DEADLINES IN FDDI NETWORKS Texas Engineering Experiment Center	Zhao Wei	N 36 19/02/92 \$190,371	LUP0 92-NM-260	
CC315 R. SHELL: INTEGRATION OF D.J. & REAL-TIME APPLICATIONS Texas Engineering Experiment Center	Natarajan Suman	N 36 19/02/92 \$235,931	LUP0 92-NM-261	
CC316 REAL-TIME COMMUNICATIONS FOR DISTRIBUTED COMPUTING North Carolina State University	Reeves Douglas	N 36 19/02/92 \$201,930	LUP0 92-NM-262	
CC317 GRAPHICAL TOOLS FOR DEVELOPMENT OF REAL-TIME SYSTEMS Univ of California, Santa Barbara	Moser Louise	N 36 19/02/92 \$569,796	LUP0 92-NM-263	
CC318 A DESIGN METHODOLOGY FOR GEOGRAPHICALLY DISTRIBUTED REAL-TIME SYSTEMS State University of New York	Shouse Ahmed	N 36 19/02/92 \$324,876	LUP0 92-NM-264	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(C31) STEPWISE DESIGN & ANALYSIS OF DISTRIBUTED REAL-TIME SYSTEMS Univ of Maryland	Serber Richard	N 36 19/02/92 \$359,246	LUPU 92-NM-265	
(C31) HEURISTICS FOR INTEGRATED TASK-TO-RESOURCE ASSIGNMENT TRANSFORMATION, & ANALYSIS OF DISTRIBUTED REAL-TIME SPECIFICATIONS New Jersey Institute of Technology	Stoyenko Alexander	N 36 19/02/92 \$353,535	LUPU 92-NM-266	
STRUCTURE CONTROL OF THE WALL REGION IN A TURBULENT BOUNDARY LAYER Cornell University	Lumley J	N 36 26/02/92 \$899,933	A JACOBS 92-NM-267	\$299,982 01/06/92 \$899,933
THEORETICAL & COMPUTATIONAL INVESTIGATION OF COHERENT STRUCTURES & CHAOS IN PLASMAS Massachusetts Institute of Technology	Murtele Jonathan	N 36 28/02/92 \$410,000	NACHMAN 92-NM-268	
THEORY AND APPLICATIONS OF NEURAL NETWORKS Harvard University	Tuille Alan	N 26 28/02/92 \$730,000	SUDDARTH 92-NM-269	
ADAPTIVE NEURAL NETWORK MODELS FOR INTELLIGENT COMPUTATIONS Univ of Maryland	Chen Hsing-din	N 36 02/03/92 \$401,094	SUDDARTH 92-NM-270	
ROBUST CONTROL AND ROBUST IDENTIFICATION Univ of Michigan	Khargonekar Pramod	N 36 02/03/92 \$256,592	JACOBS 92-NM-271	
PHOTON-LIMITED IMAGE DETECTION USING SHOT-NOISE MODELS Univ of Wisconsin	Gubner John	N 36 02/03/92 \$139,340	A SJOGREN 92-NM-272	\$27,460 01/05/92 \$139,340
THEORETICAL AERODYNAMICS Rensselaer Polytechnic Institute	Cole Julien	N 36 02/03/92 \$309,230	NACHMAN 92-NM-273	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COMPUTATION AND CONTROL IZI Montana State University	lowers Kenneth	N 12 02/03/92 \$11,910	JACOBS 92-NM-274	
ANALYSIS & CHARACTERIZATION OF TRUE & NUMERICALLY-GENERATED CHAOS IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS Univ of Central Florida	Choudhury S. Roy	N 24 02/03/92 \$42,032	NACHMAN 92-NM-275	
DESIGNING EFFICIENT MULTI-AGENT SYSTEMS Stanford University	Shoham Yoav	R 36 11/03/92 \$264,000	WAKSMAN 92-NM-276	
AN OBJECT-ORIENTED FORMAL METHOD FOR REAL-TIME SOFTWARE REQUIREMENTS Univ of Texas	Kung Chenho	N 36 12/03/92 \$126,056	LUPO 92-NM-277	
WORKSHOP ON CYCLOSTATIONARY SIGNALS Univ of California, Davis	Gardner William	N 12 12/03/92 \$5,325	SJOGREN 92-NM-278	
THEORY & NUMERICAL ALGORITHMS FOR ROBUST ANALYSIS & DESIGN IN THE PRESENCE OF STRUCTURED PERTURBATIONS. Purdue Research Foundation	DeCarlo Raymond	N 15 12/03/92 \$180,926	JACOBS 92-NM-279	
ALGORITHMIC APPROACHES TO NONLINEAR INTEGER PROGRAMMING State University of New York	Skorin-Kapov Jadranka	N 36 12/03/92 \$239,652	GLASSMAN 92-NM-280	
TAME (TAILORING A MEASUREMENT ENVIRONMENT) RESEARCH PROGRAM - EXPERIENCE BASE Univ of Maryland	Basili Victor	N 36 12/03/92 \$237,582	LUPO 92-NM-281	
A MOMENT-BASED UNIFIED APPROACH TO LOW-LEVEL MACHINE VISION (MISA 9203051209) Univ of Kentucky Research Foundation	Mehrotra Rajiv	N 24 12/03/92 \$139,221	WAKSMAN 92-NM-282	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MULTILEVEL TECHNIQUES IN LARGE SCALE COMPUTATION Univ of Colorado at Denver	McCormick Stapfen	R 36 12/03/92 \$571,900	NACHMAN 92-NM-293	
HARDWARE IMPLEMENTATIONS AND APPLICATIONS OF NEURAL NETWORK ARCHITECTURE Jet Propulsion Laboratory	Thakoor A.	N 06 23/03/92 \$40,000	A SUDDARTH 92-NM-284	\$40,000 01/05/92 \$40,000
GOVERNMENT NEURAL NETWORKS APPLICATIONS WORKSHOP, GNM92 Air Force Institute of Technology	Rojers Steven	N 05 23/03/92 \$25,000	A SUDDARTH 92-NM-285	\$25,000 15/04/92 \$25,000
GOVERNMENT NEURAL NETWORK APPLICATIONS WORKSHOP GNM92 MIT Research Institute	Heaton Robert	N 05 23/03/92 \$15,000	A SUDDARTH 92-NM-286	\$15,000 15/04/92 \$15,000
(C3I) CELLULAR-ISON SYSTEMS-PROTOCOLS & NETWORK RECONFIGURATION Univ of Virginia	Papadantonis-Kazakos Panayotis	N 24 24/03/92 \$188,584	LUPO 92-NM-287	
APPLICATIONS OF THE TIME DEPENDENT FAST ADAPTIVE COMPOSITE GRID METHOD TO COMPUTATIONAL AERODYNAMICS Colorado State University	Thomas James	N 36 24/03/92 \$232,857	JACOBS 92-NM-288	
OPTIMIZATION OF RULE CONDITION TESTING IN ACTIVE DATABASE SYSTEMS Univ of Florida	Hanson Eric	N 24 24/03/92 \$130,358	WAKSMAN 92-NM-289	
KNOWLEDGE ENHANCEMENT & REFINEMENT IN CASE-BASED REASONING Lockheed Missiles & Space Co Inc	Siaoulis Evangelos	N 58 25/03/92 \$589,719	WAKSMAN 92-NM-290	
CHARACTERIZATION OF MEASURES OF INTRINSIC UNCERTAINTY Univ of Louisville	Branks Bruce	N 36 25/03/92 \$122,903	WAKSMAN 92-NM-291	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STATISTICAL INFERENCE PROBLEMS IN SOME MULTIVARIATE LINEAR MODELS WITH APPLICATIONS TO MULTIVARIATE CALIBRATION & META-ANALYSIS Univ of Maryland, Baltimore County	Mathew Thomas	24 25/03/92 \$127,530	SJOGREN 92-NM-292	
NONLINEAR DYNAMICS PERIODIC WAVES VIA THE NONLINEAR SCHRÖDINGER EQUATION: APPLICATION TO NONLINEAR OPTICS Georgia Institute of Tech	Kennedy T.A. Brian	36 25/03/92 \$144,096	NACHMAN 92-NM-293	
FROM DYNAMICAL SYSTEMS TO COHERENT STRUCTURES: SHADOWING CHAOS WITHIN TURBULENCE Arizona State University	Nicolaenko Basil	36 25/03/92 \$208,907	NACHMAN 92-NM-294	
REAL-TIME CONTROL OF REASONING Univ of Oregon	Ginsberg Matthew	36 31/03/92 \$359,321	WAKSMAN 92-NM-295	
GEOMETRIC INVARIANTS IN OBJECT RECOGNITION Univ of Maryland	Weiss Isaac	36 31/03/92 \$208,721	WAKSMAN 92-NM-296	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
GENERAL GEOMETRY PIC ALGORITHMS AND SOFTWARE FOR DISTRIBUTED MEMORY WIND COMPUTERS Culham Laboratory	Eastwood James	N 12 30/01/92 \$93,600	A OWENS 92-EX-001	\$35,000 15/05/92 \$93,600
CONTROLLING CHAOS IN PLASMA-FILLED DIODES King's College London	Lindsay Peter	N 12 05/02/92 \$40,000	A OWENS 92-EX-002	\$40,000 15/05/92 \$40,000
QUANTUM MECHANICAL INVESTIGATION OF POLYMERIC PROPERTIES USING A COMBINATION OF FIRST PRINCIPLES QUANTUM CHEMICAL AND SOLID STATE... Universitat of Erlangen-Muenchen	Ladik JR Janos	N 36 23/02/92 \$160,000	A OWENS 92-EX-003	\$50,000 01/06/92 \$160,000
CONTROL OF ROTOR VIBRATIONS USING HYBRID SQUEEZE FILM DAMPERS Cairo University	El-Shafel Ali	N 36 12/03/92 \$170,154	A OWENS 92-EX-004	\$5,000 01/07/92 \$170,154
AN ENGINEER'S APPROACH TO THE APPLICATION OF KNOWLEDGE BASED PLAN- ING AND SCHEDULING Univ of Edinburgh	Tate Austin	N 36 24/03/92 \$750,000	A OWENS 92-EX-005	\$115,000 01/06/92 \$750,000
DYNAMIC SCALING OF PROTOTYPES USING RADIOS OF VIBRATION METHOD Technion-Israel Inst of Technology	Gal-Or Benjamin	N 12 24/03/92 \$70,327	A OWENS 92-EX-006	\$70,327 01/06/92 \$70,327